

FIG. 1

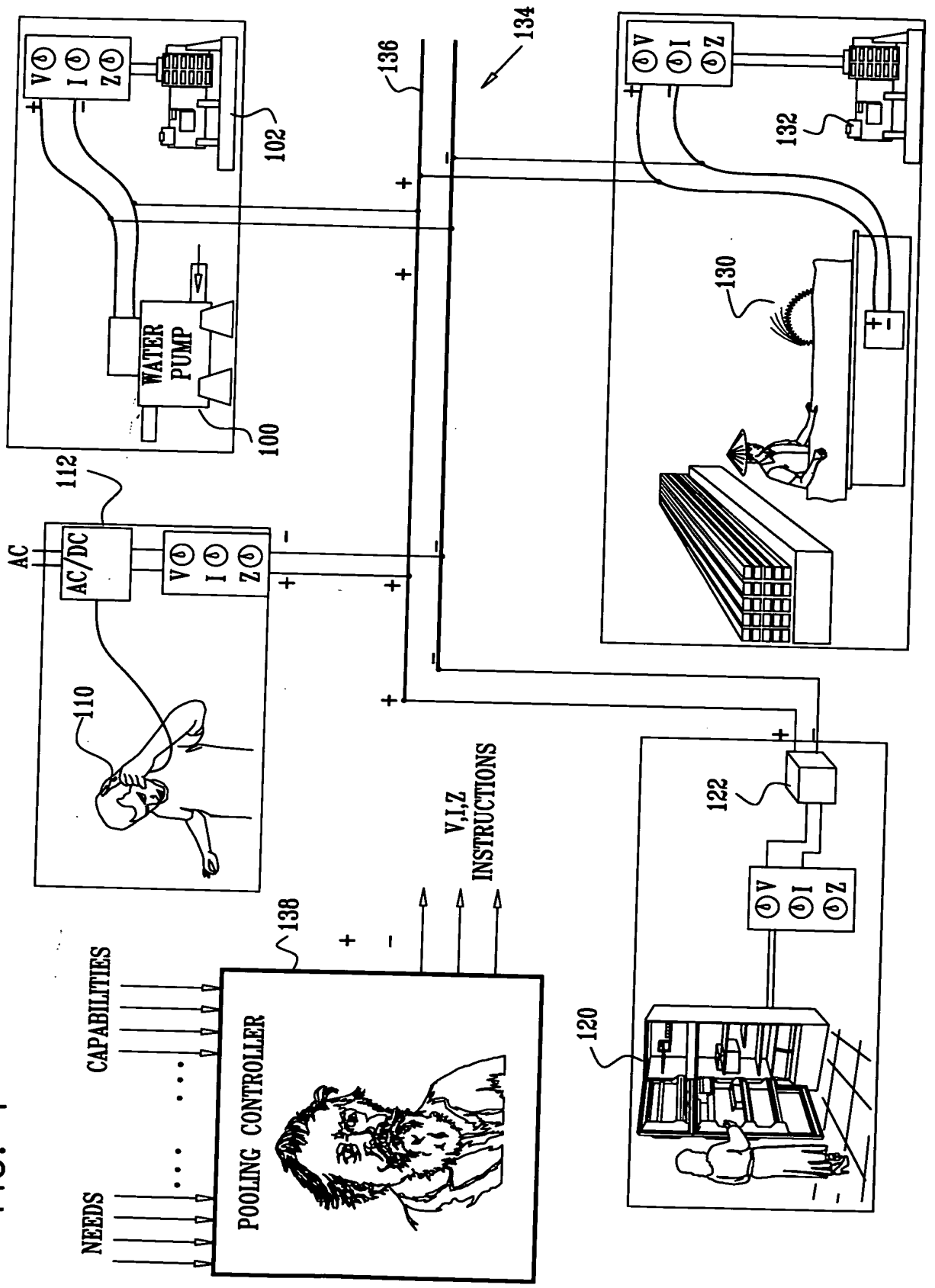


FIG. 2

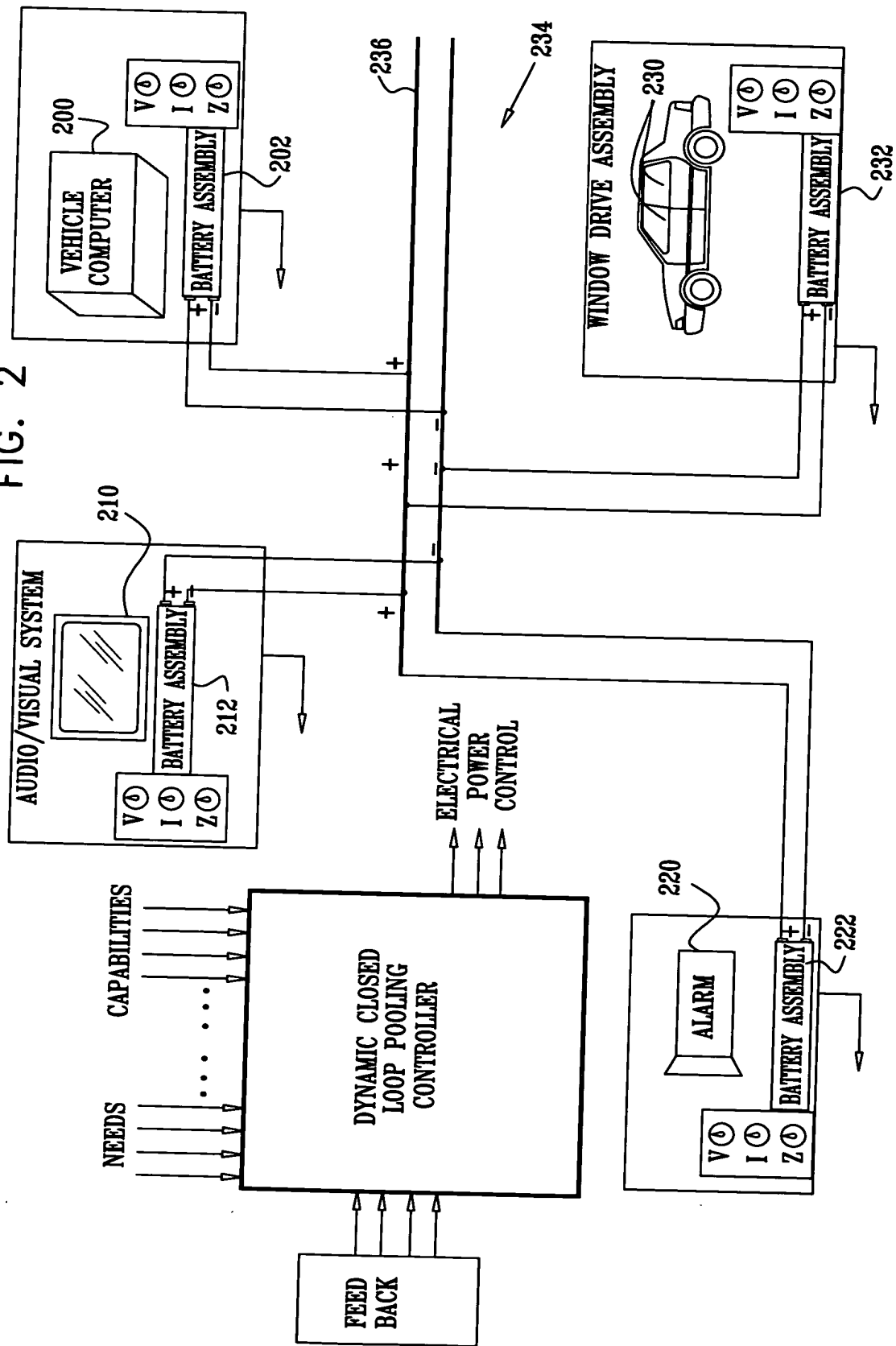


FIG. 3

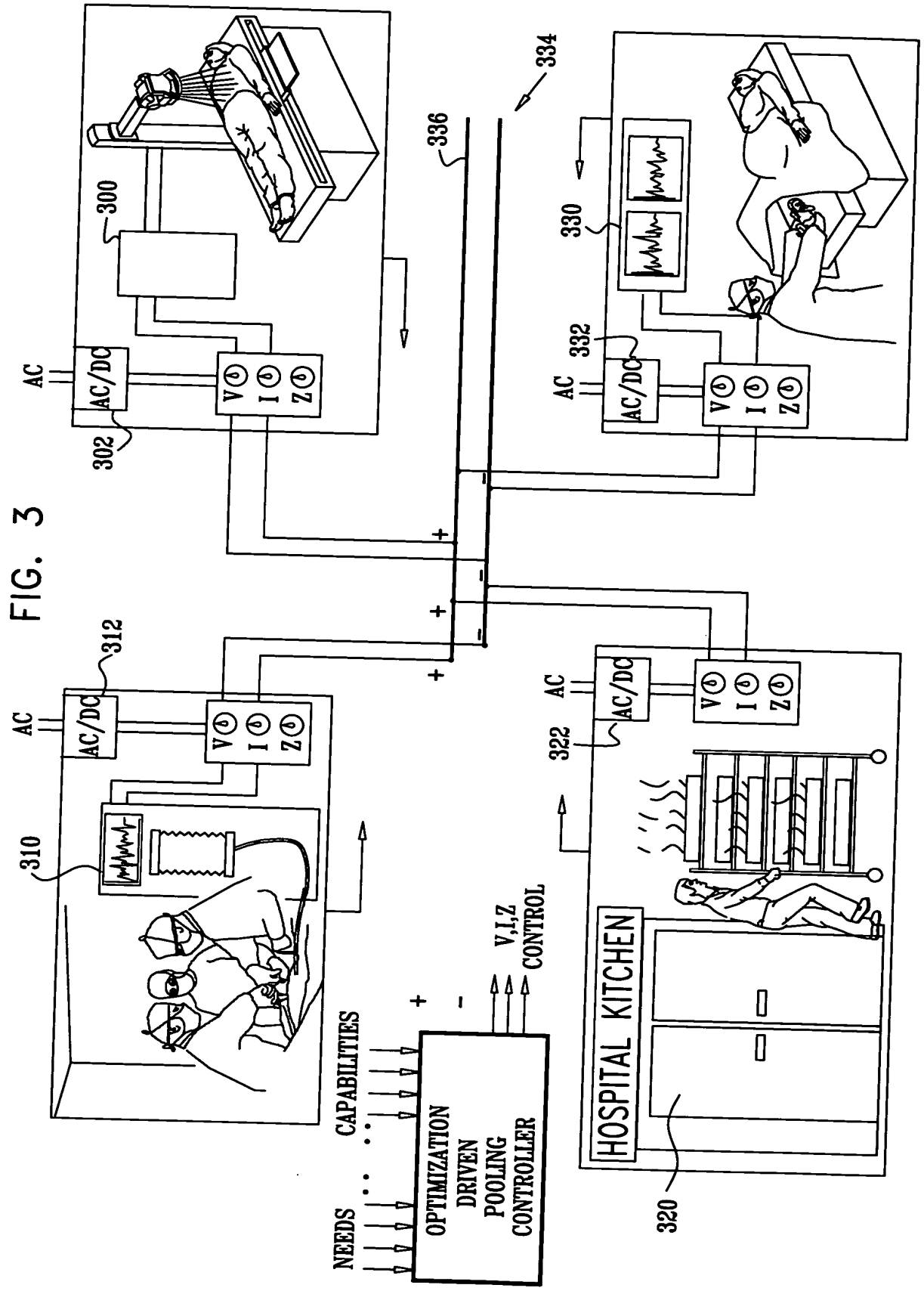
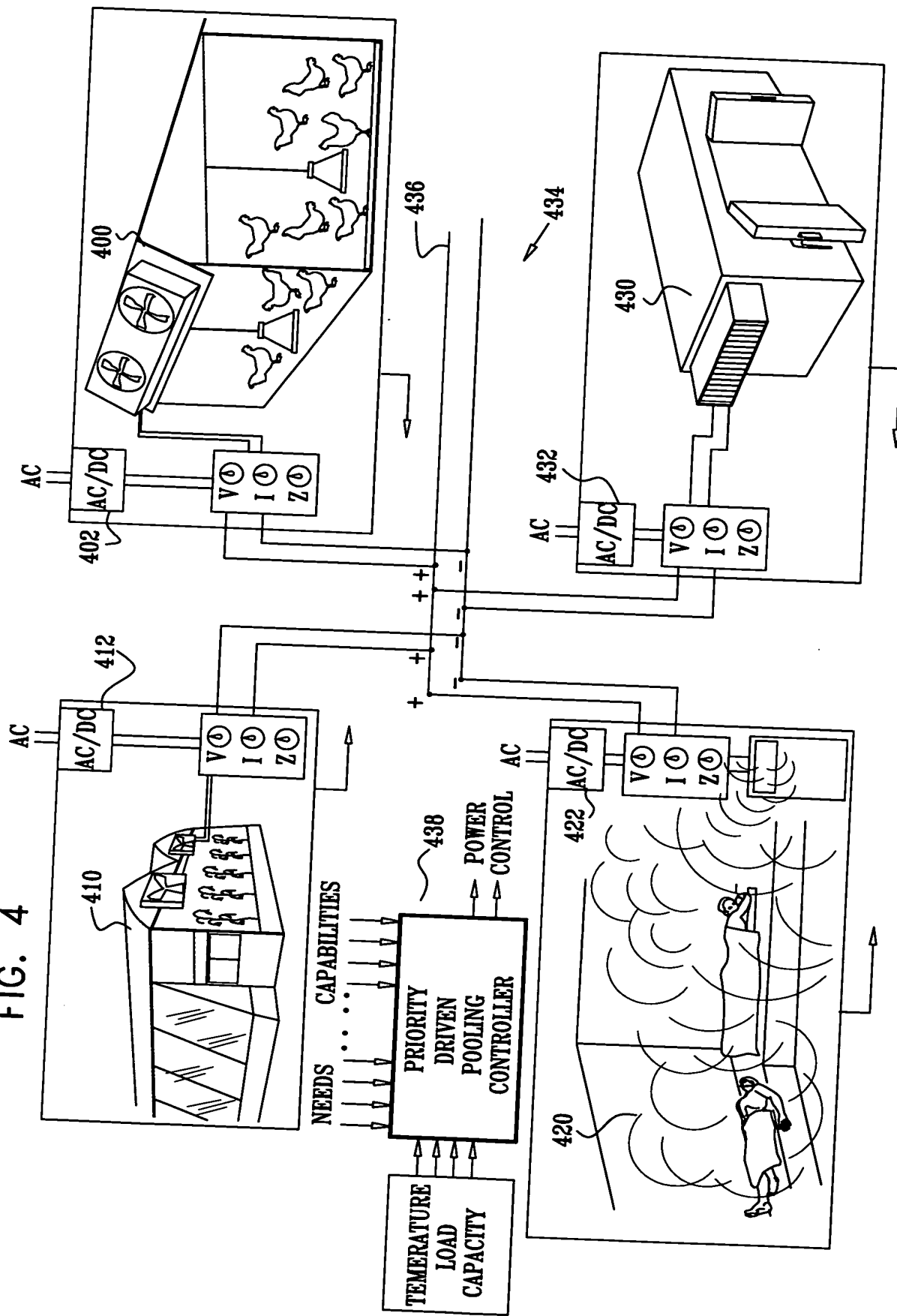


FIG. 4



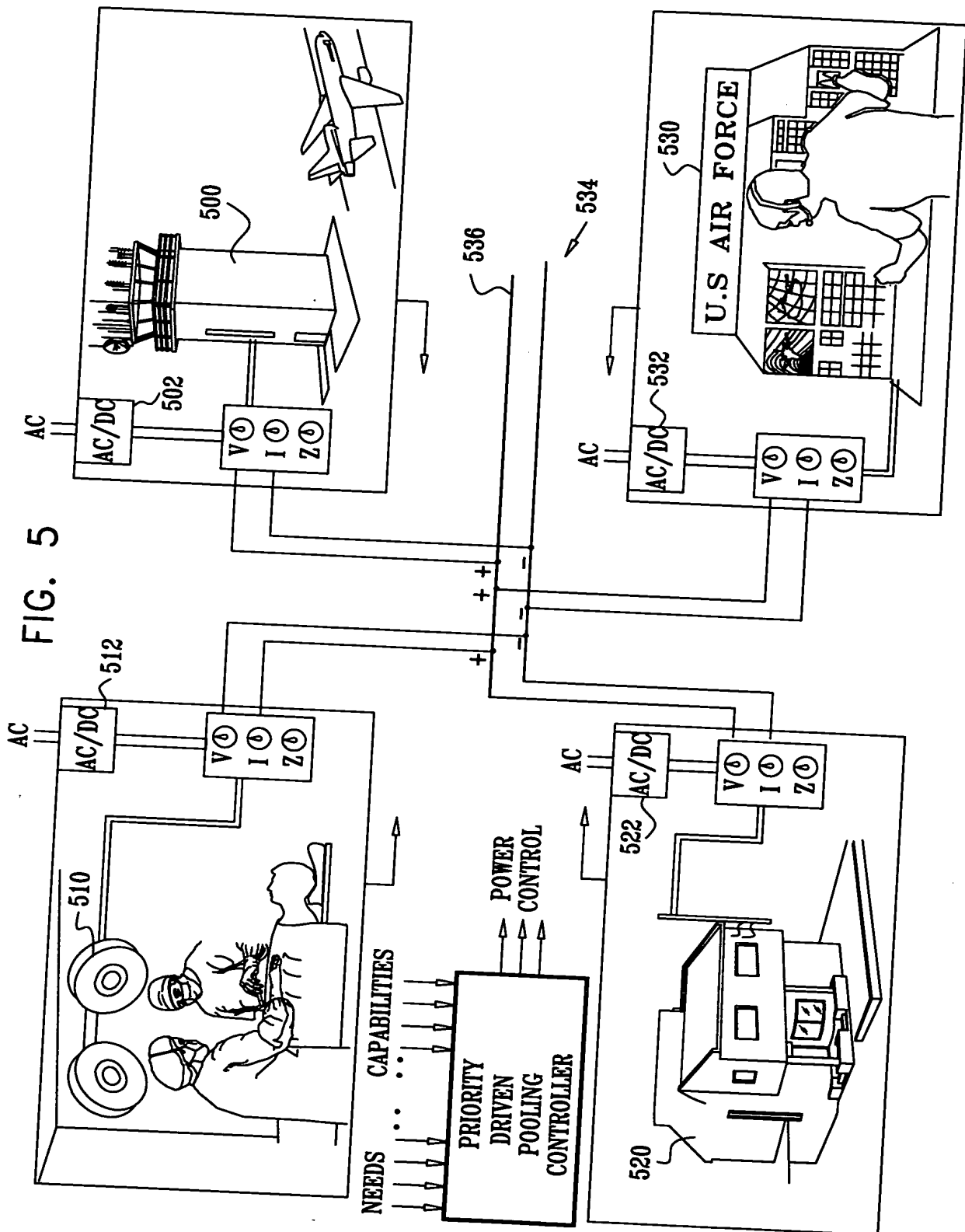


FIG. 5

FIG. 6

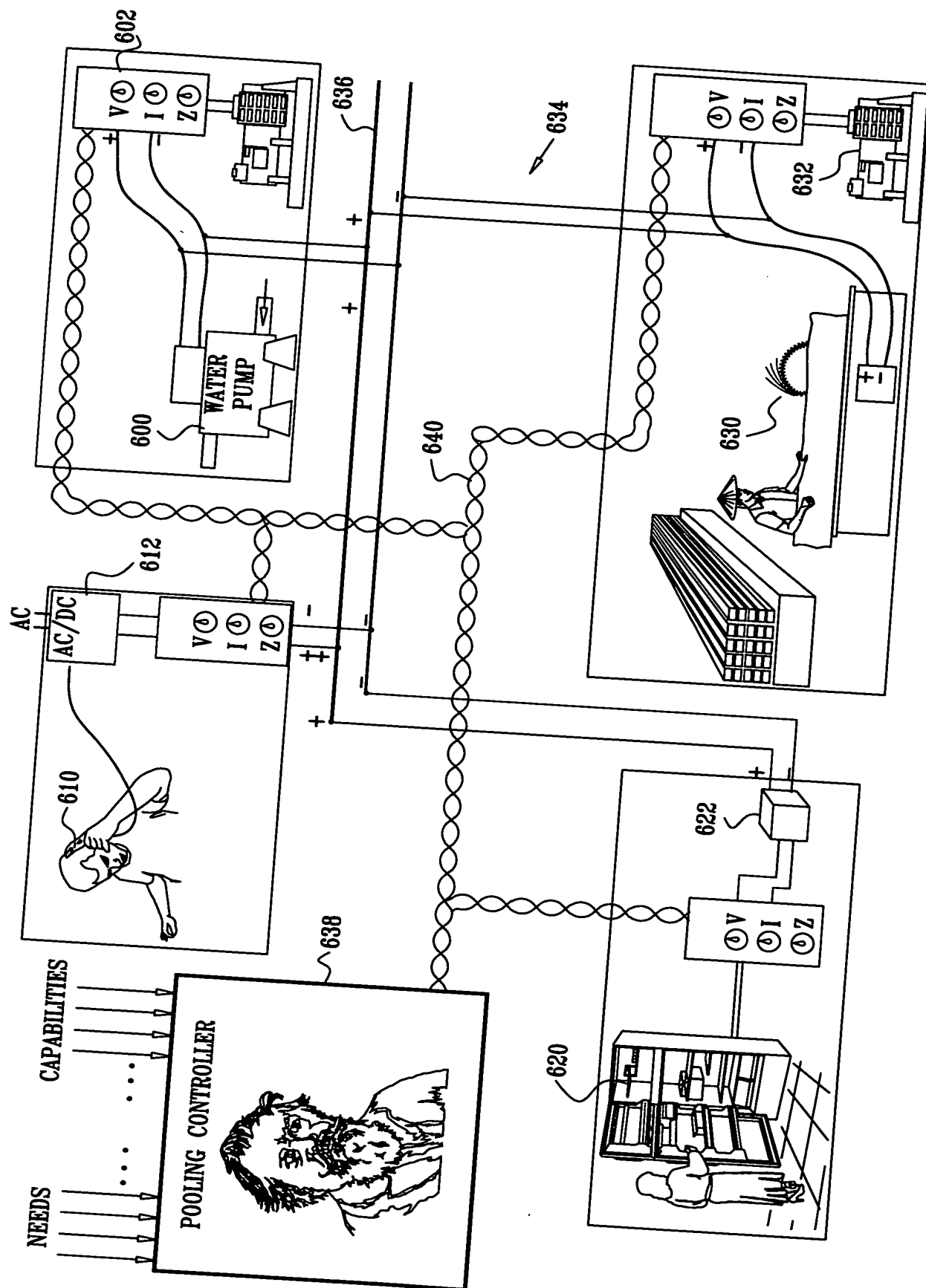


FIG. 7

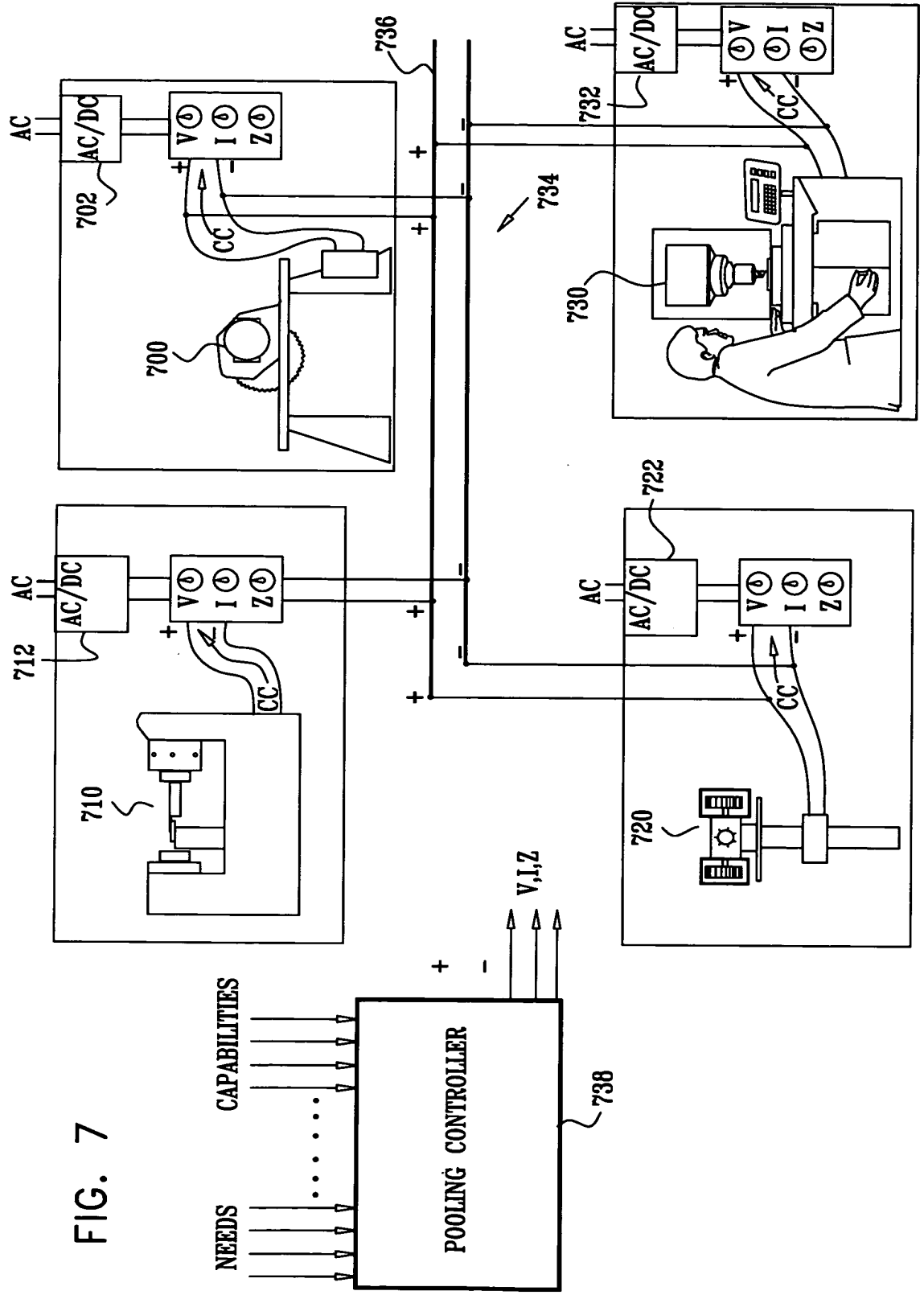


FIG. 8

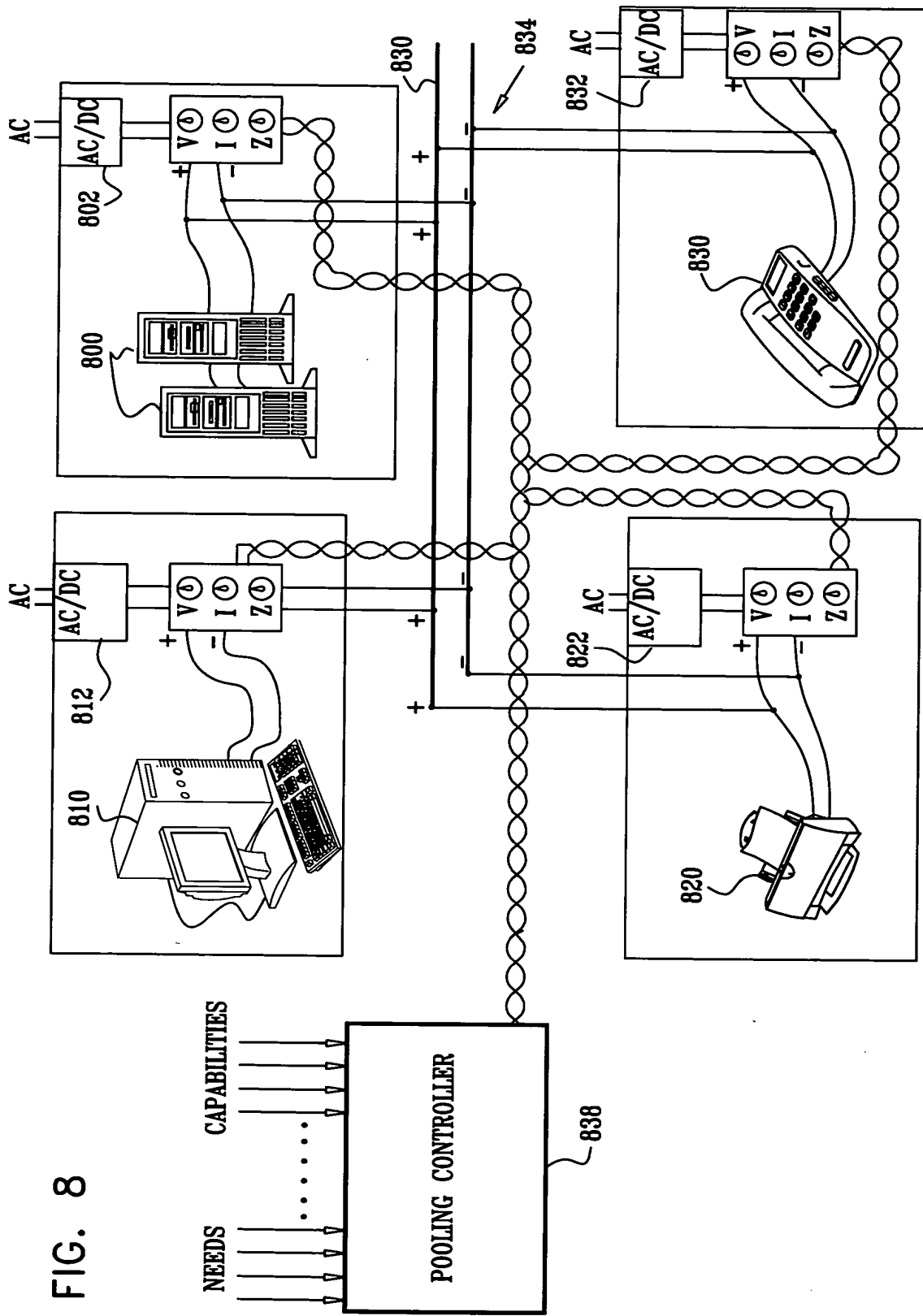




FIG. 9

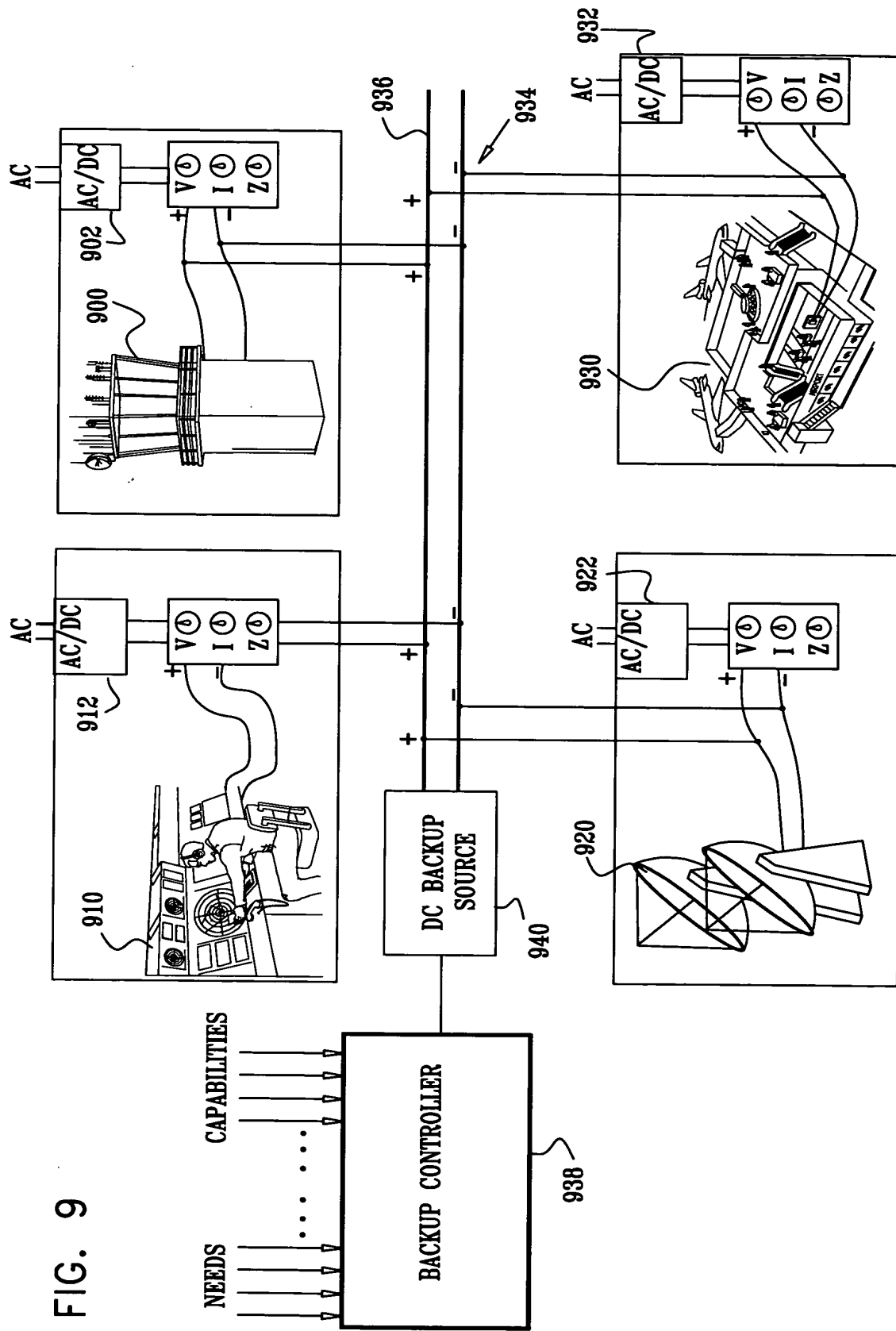
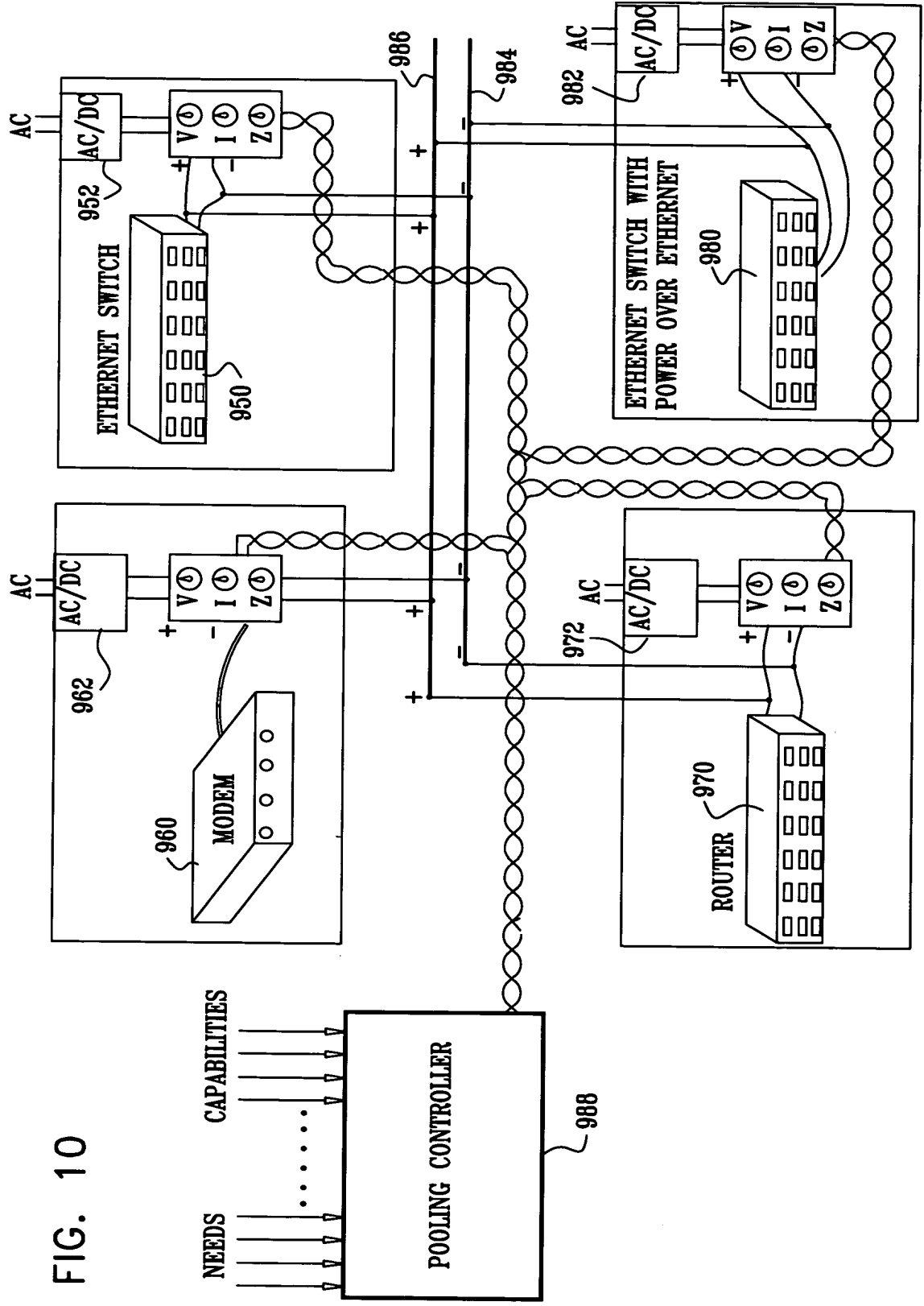
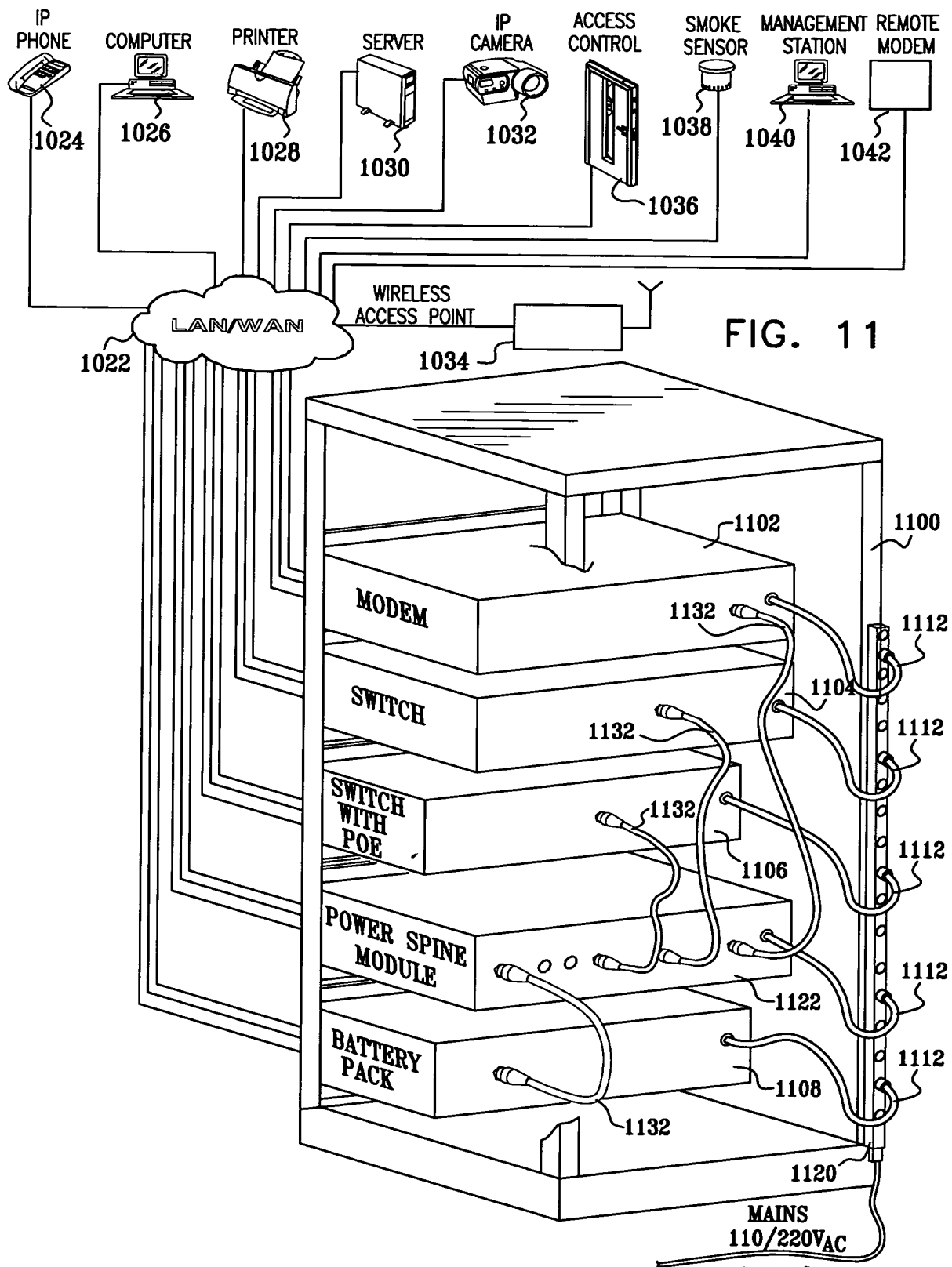


FIG. 10





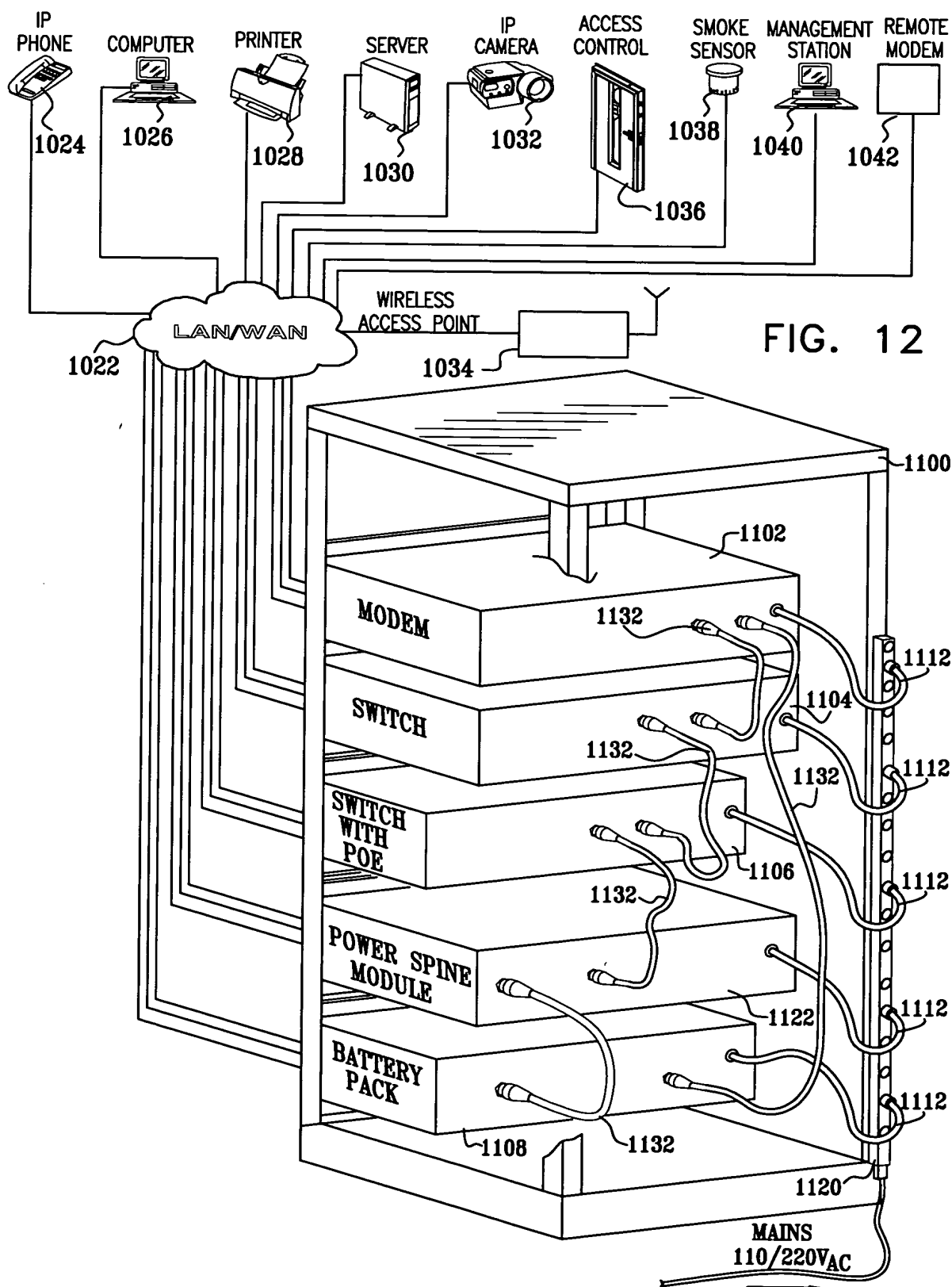


FIG. 12

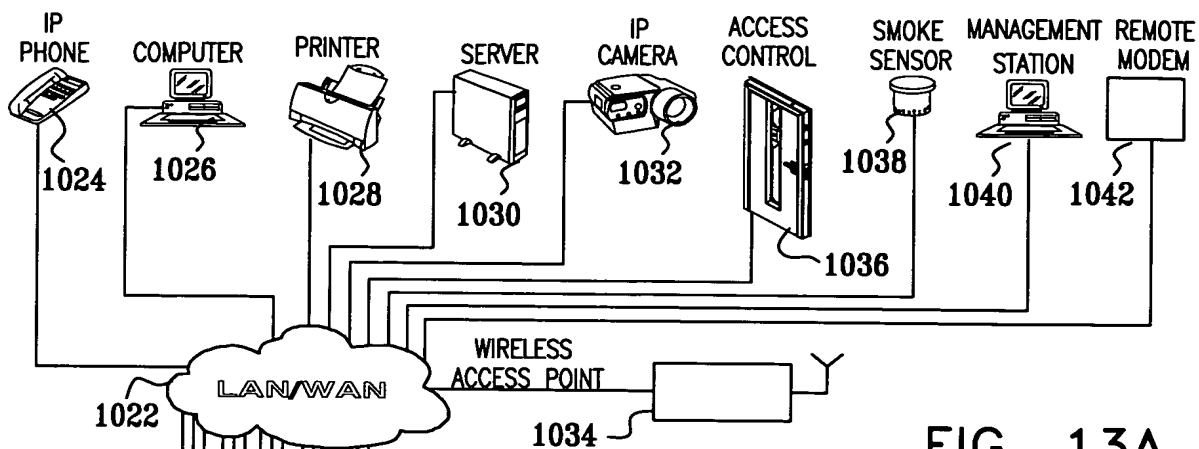
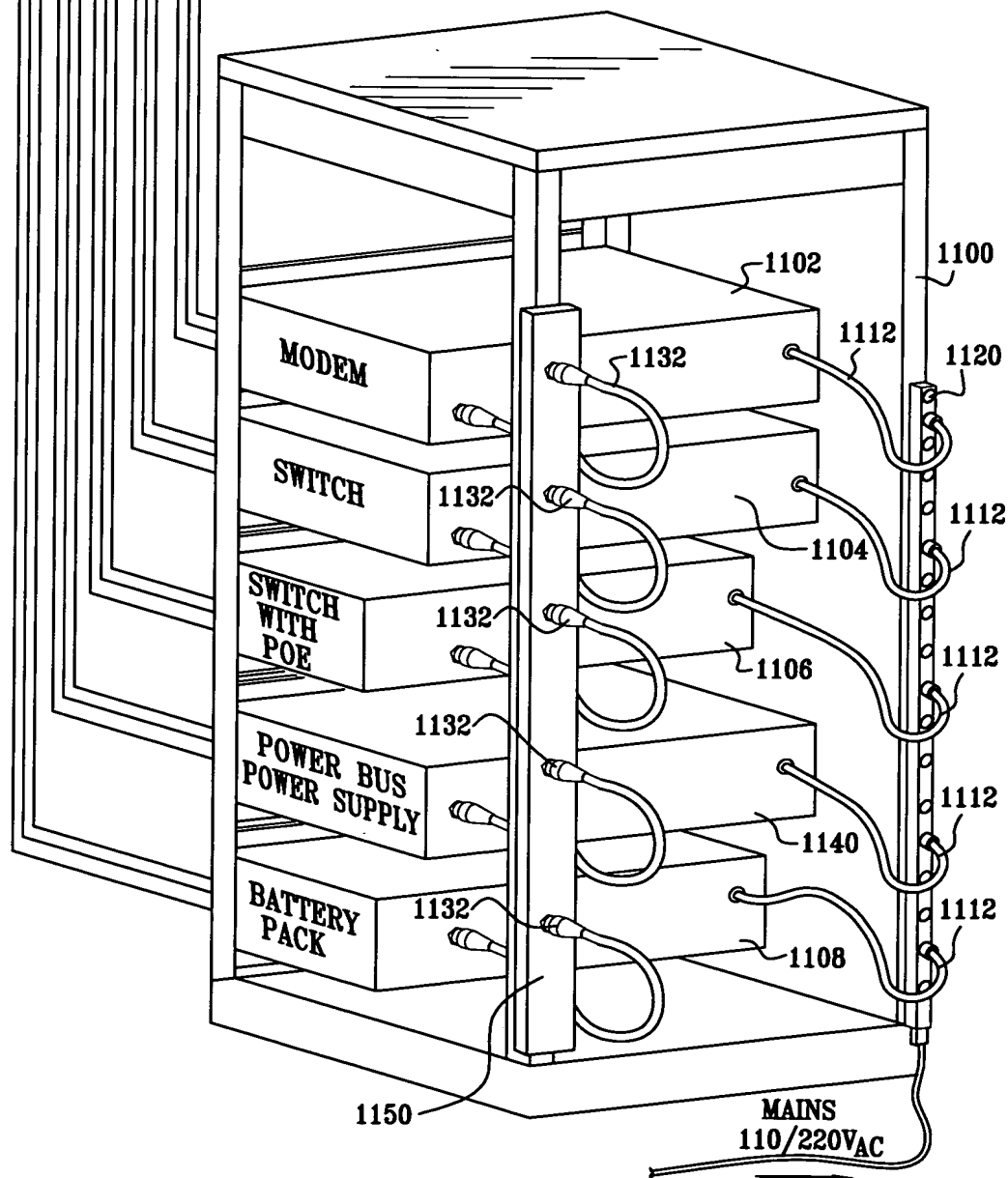


FIG. 13A



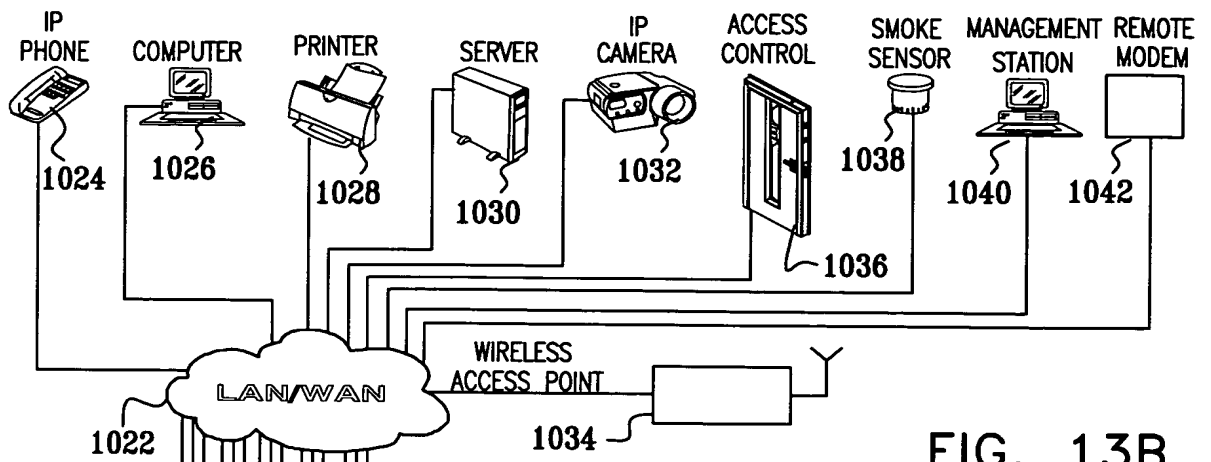
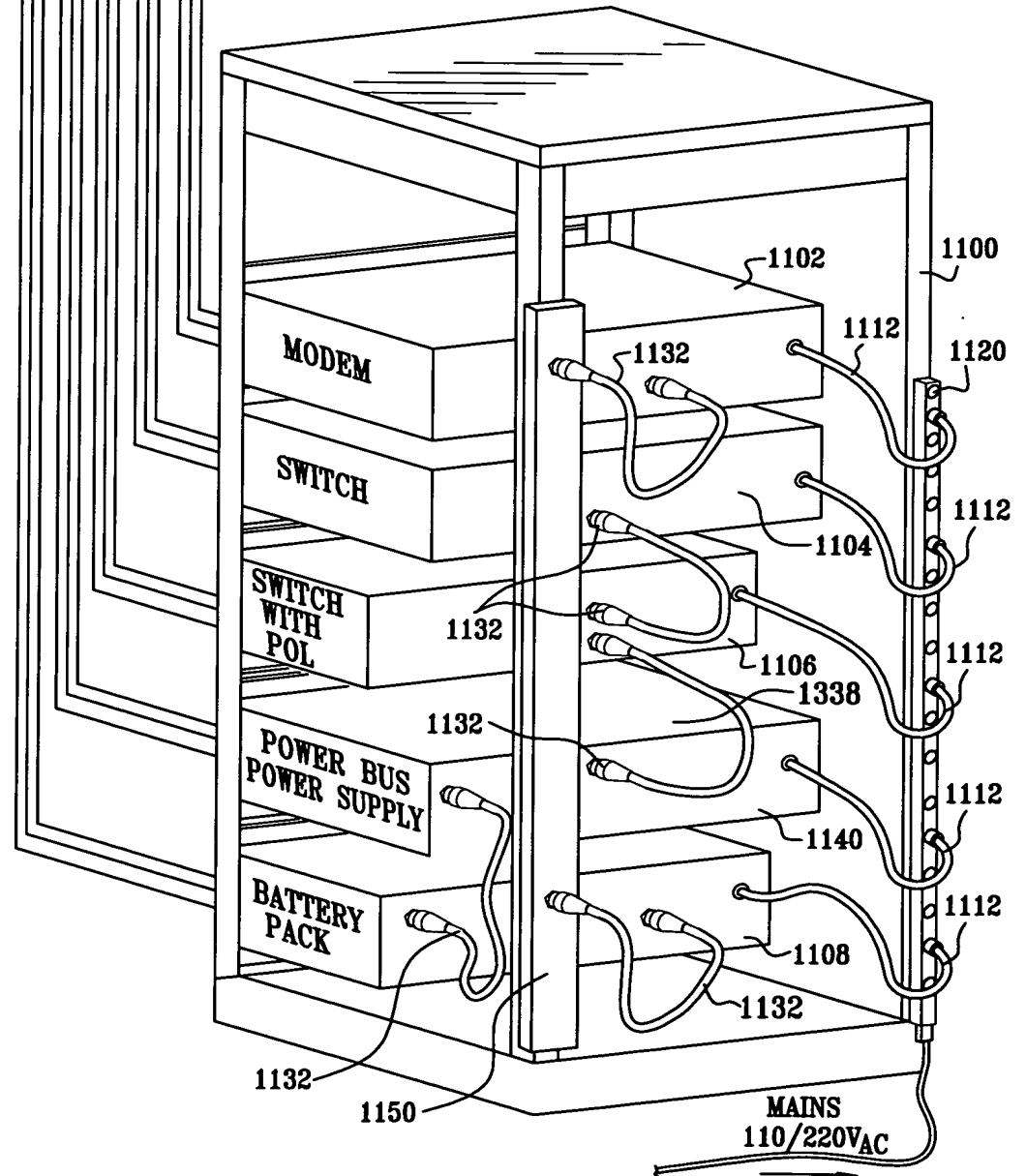


FIG. 13B



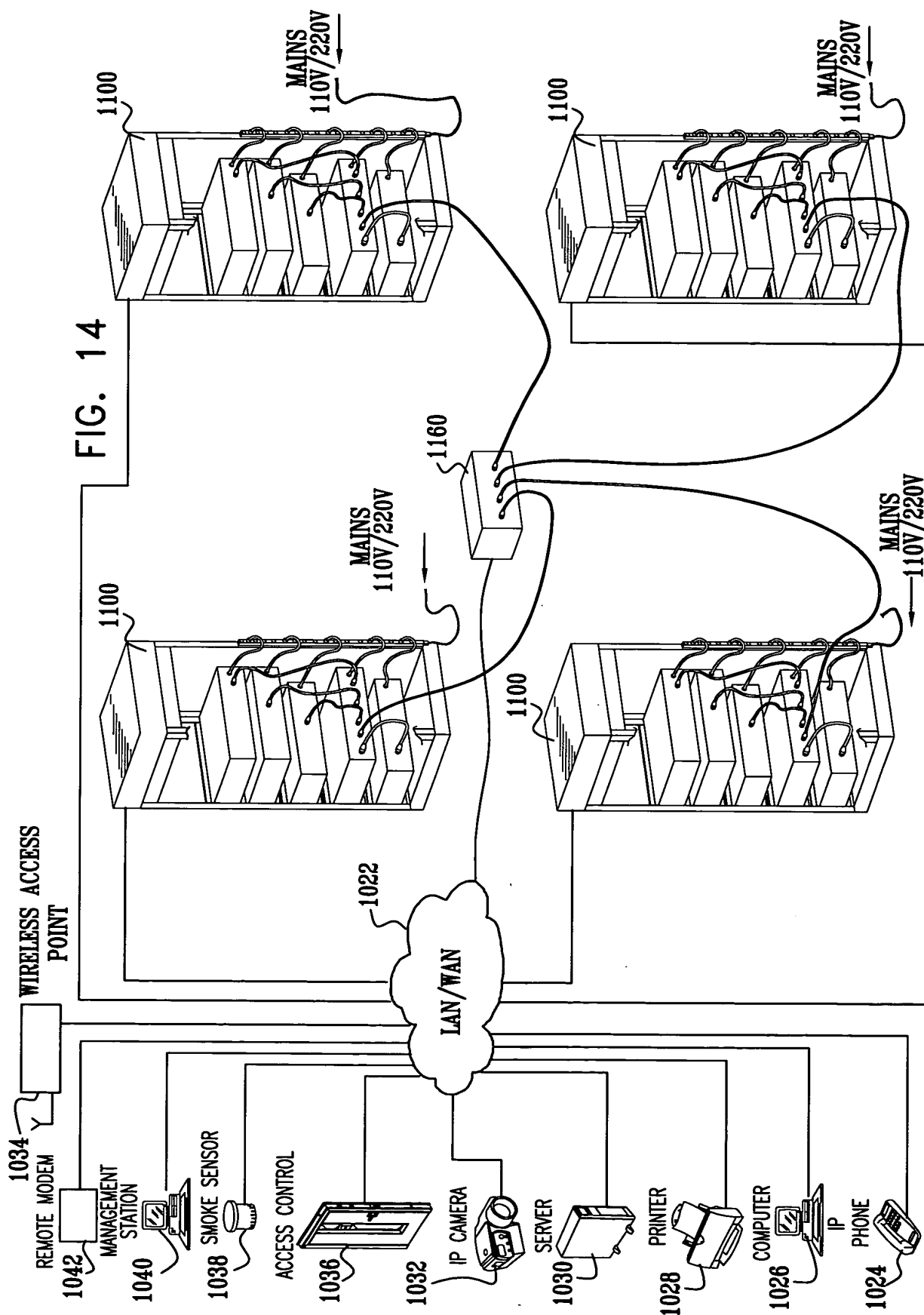
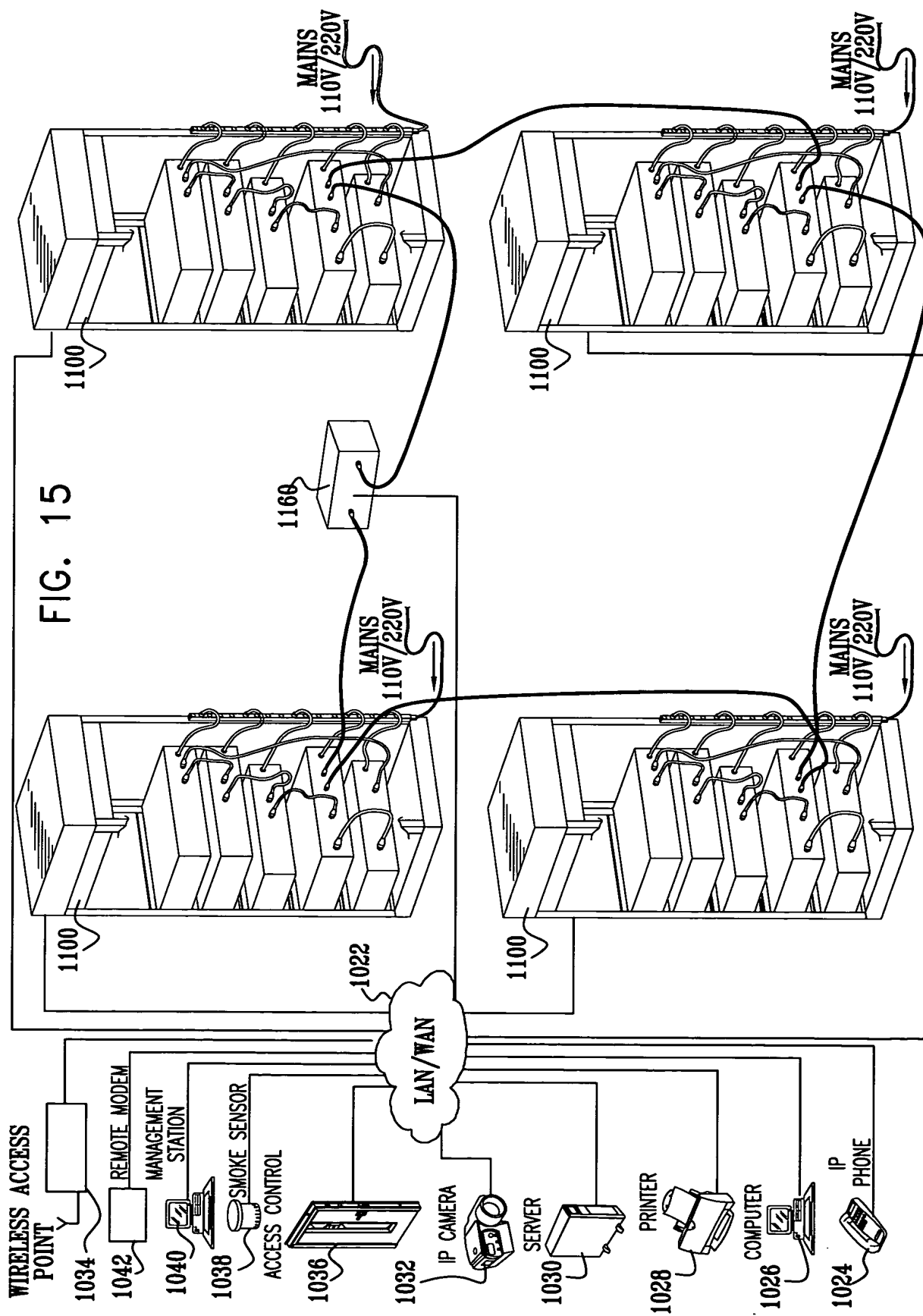


FIG. 14





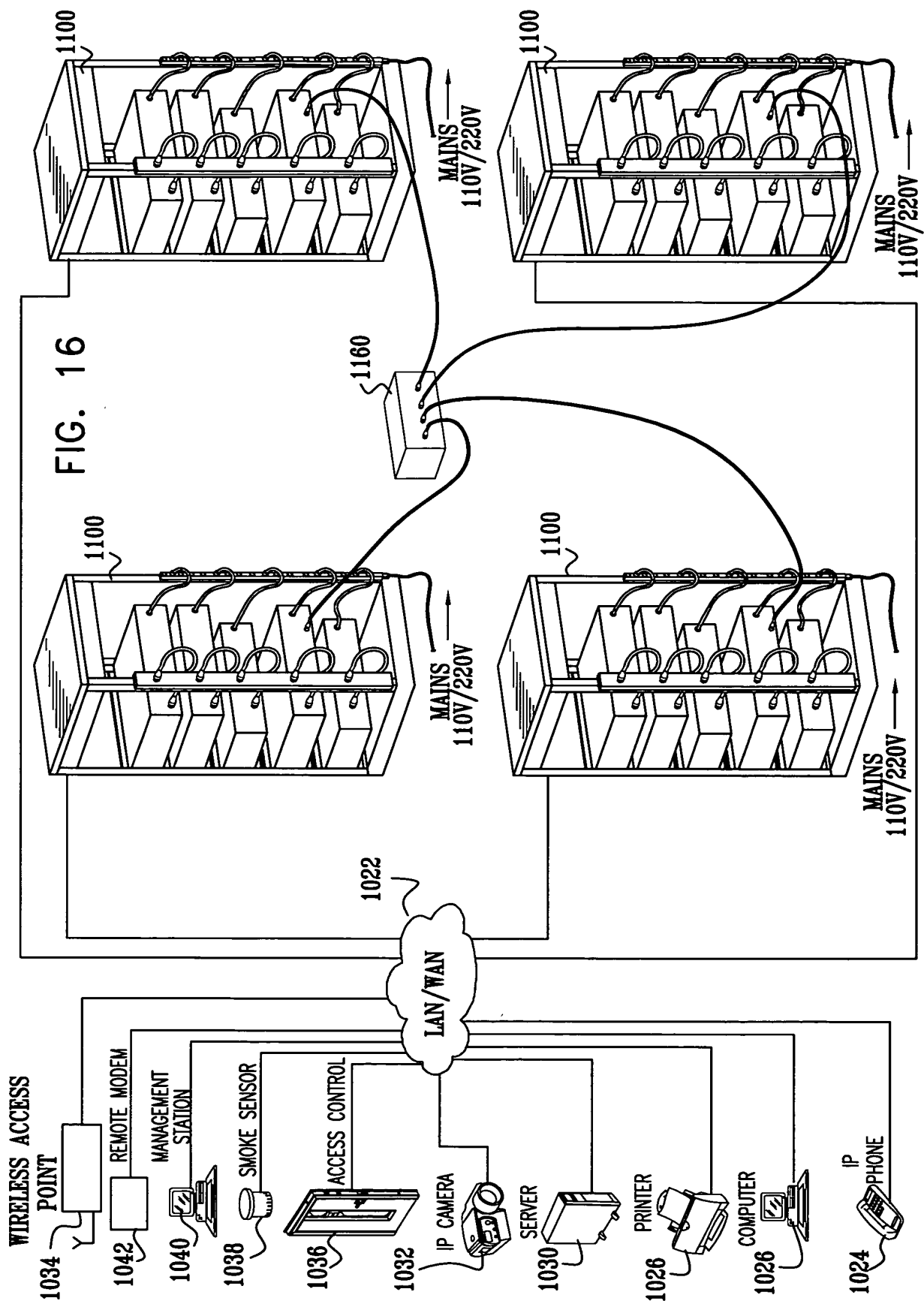


FIG. 17

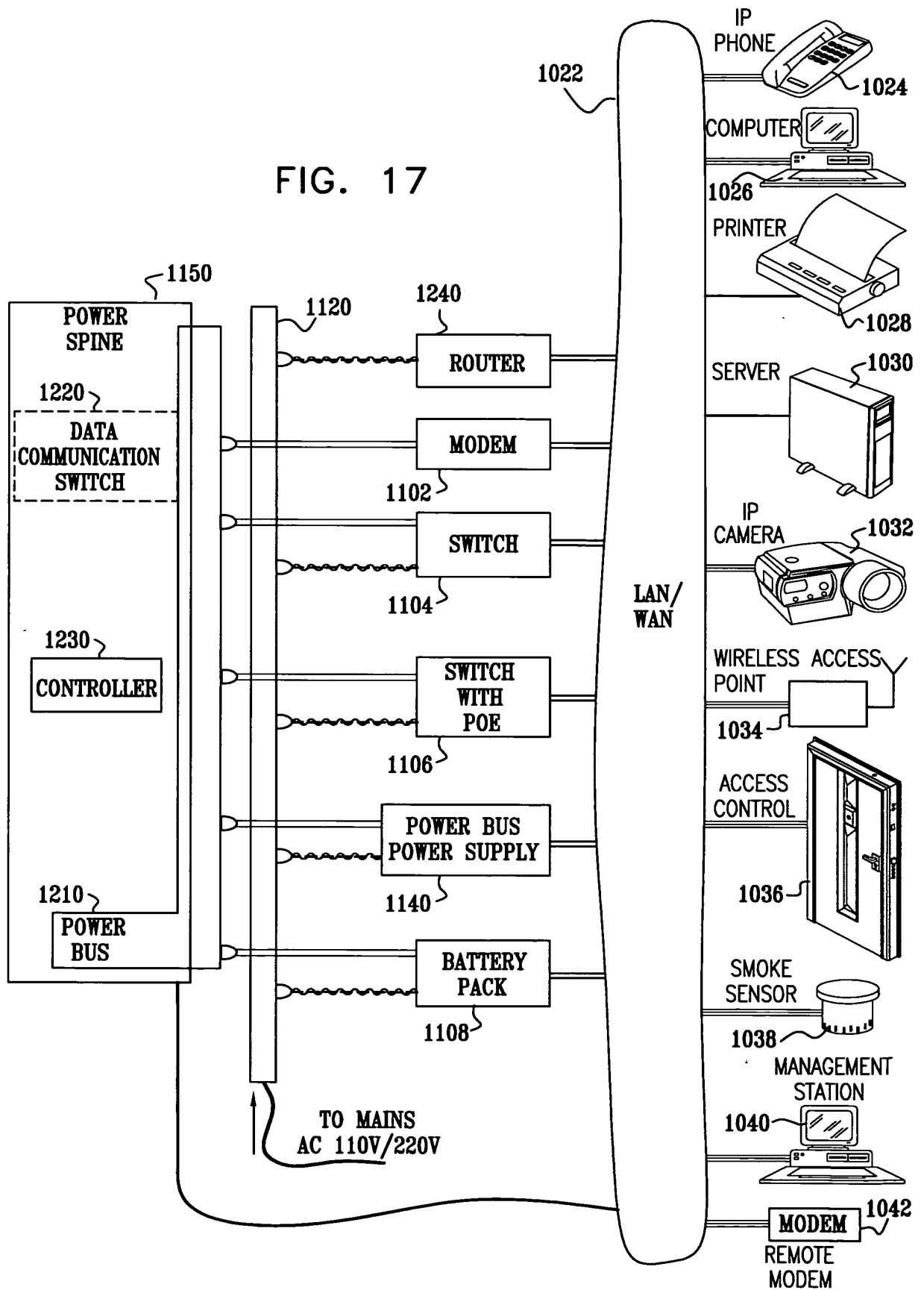


FIG. 18A

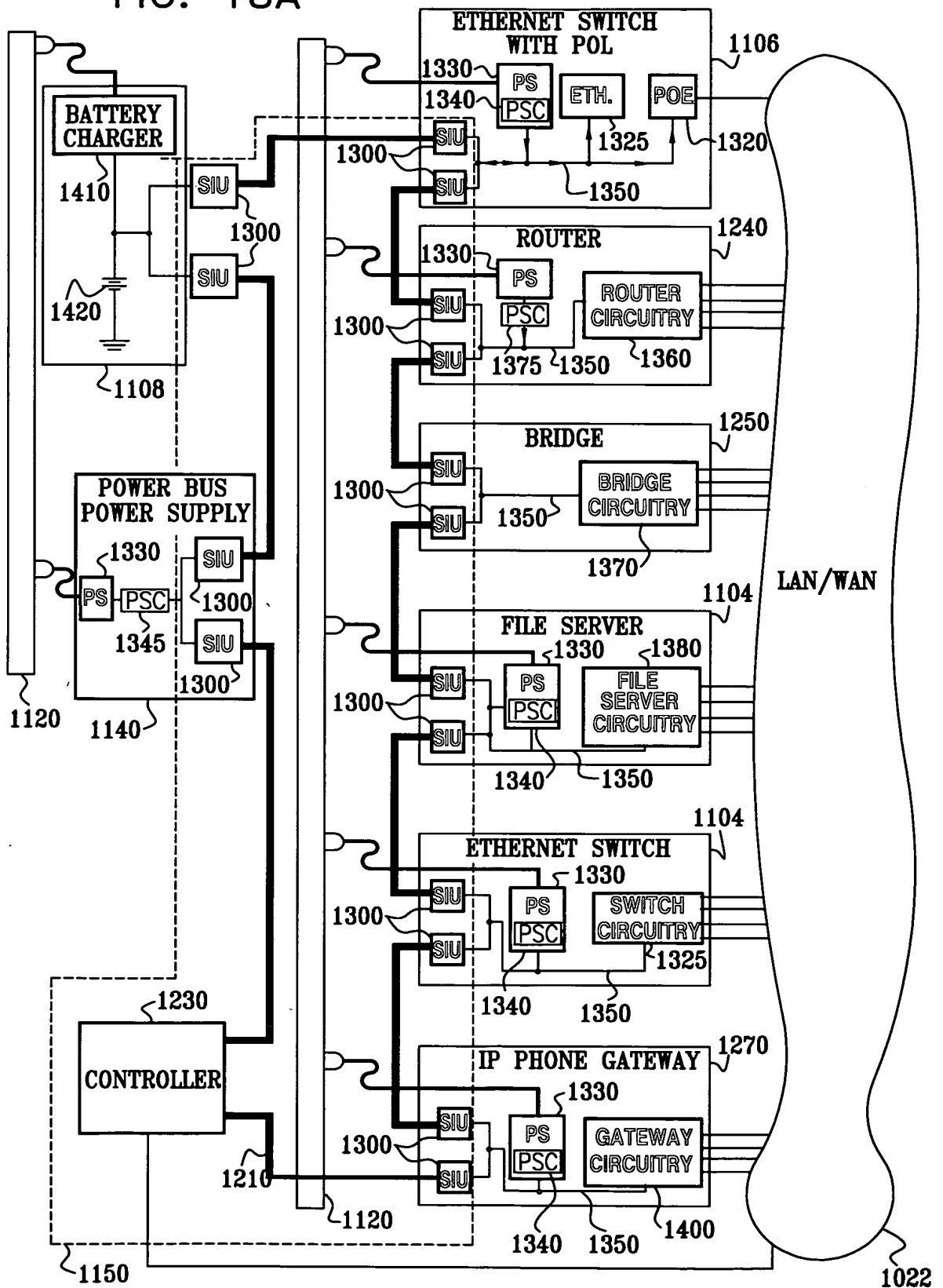


FIG. 18B

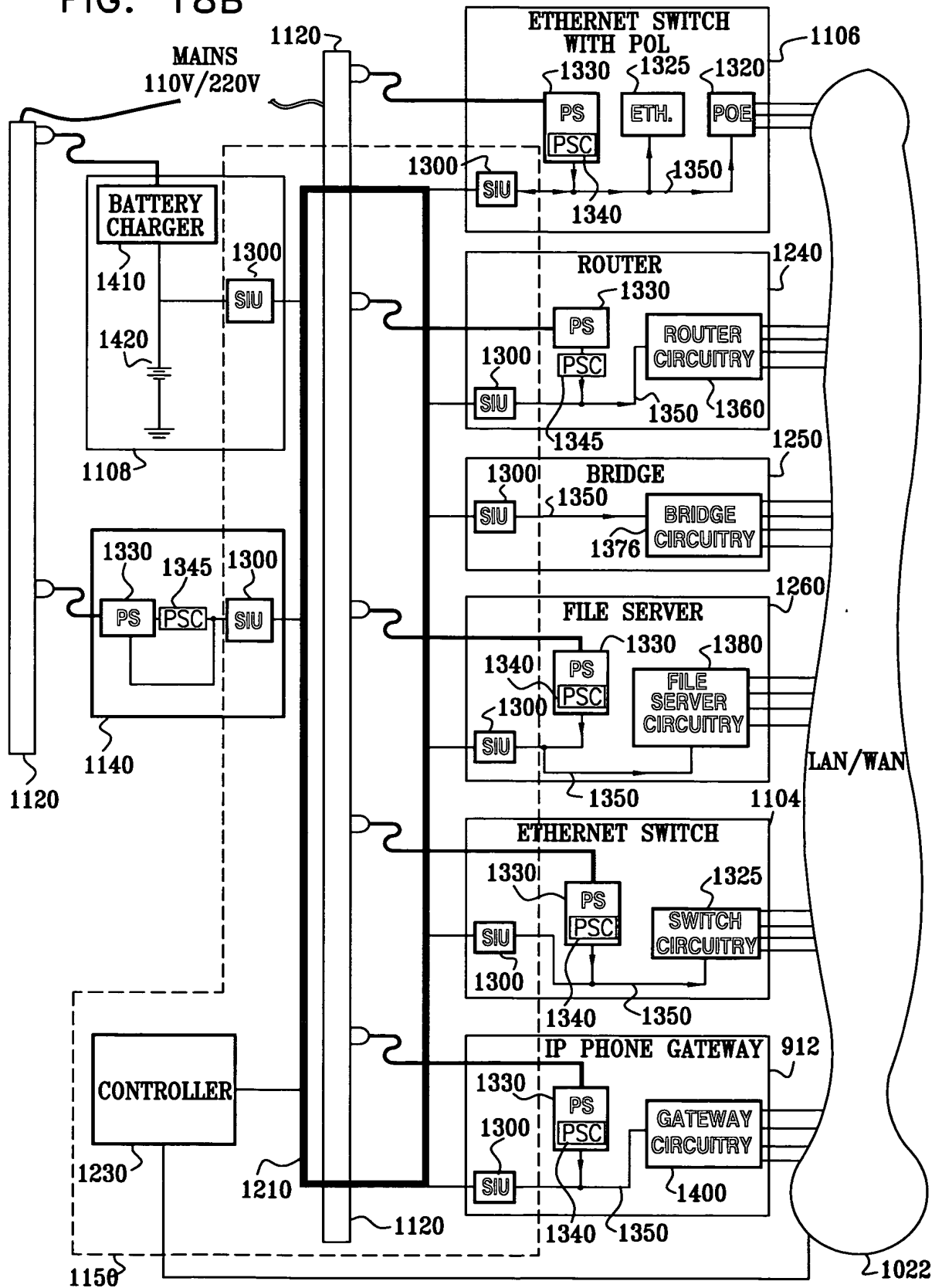


FIG. 19A

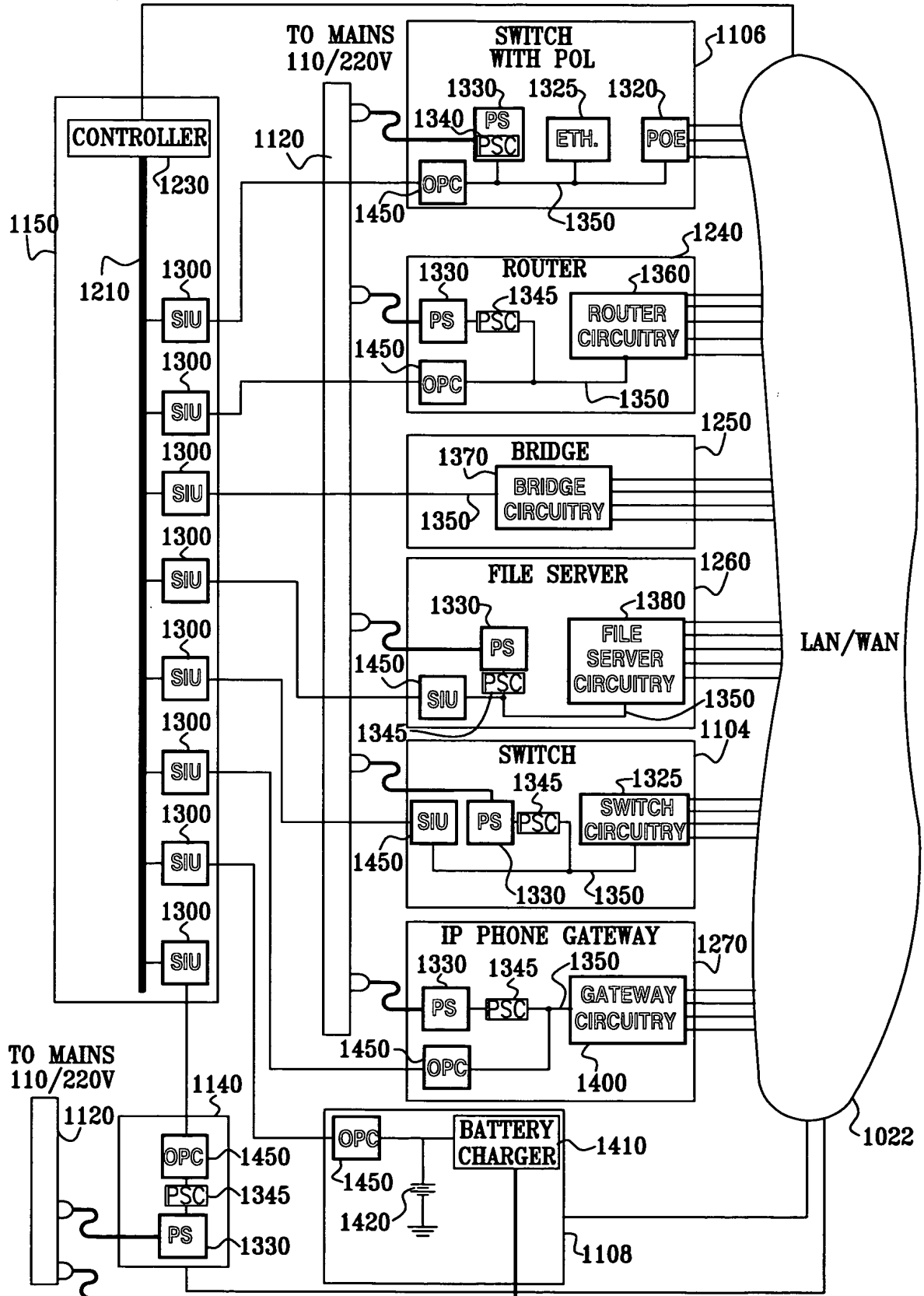


FIG. 19B

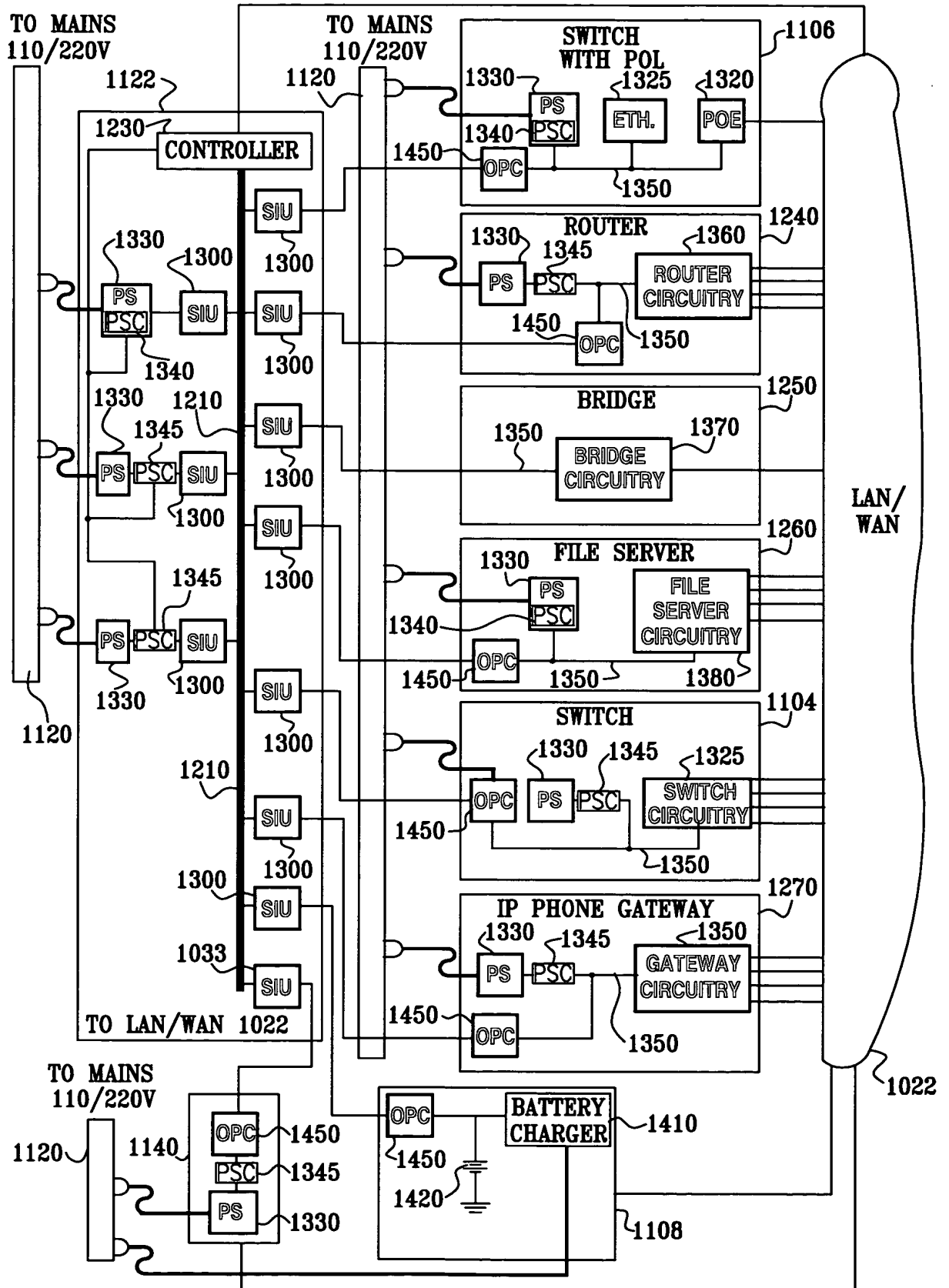


FIG. 20A

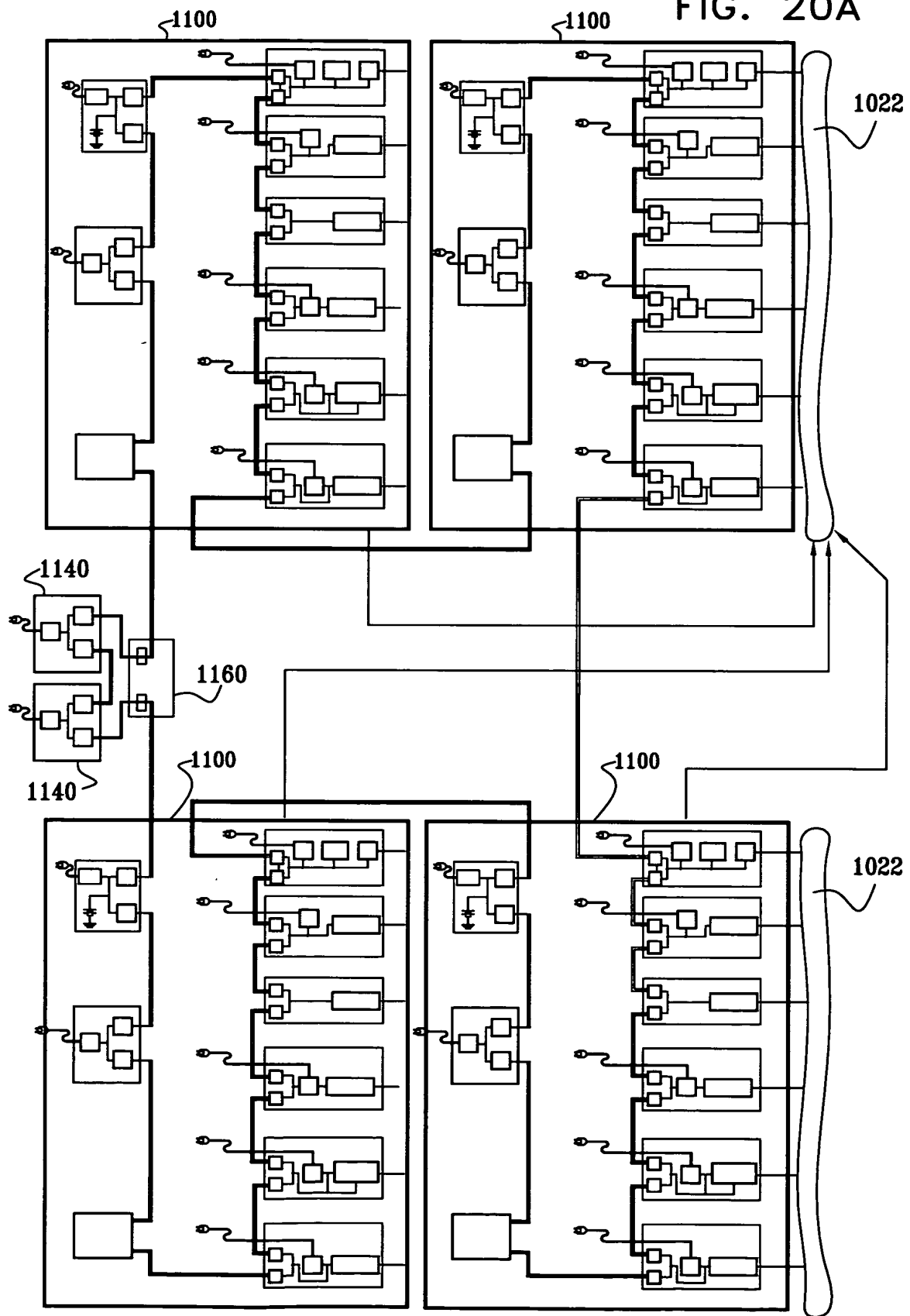


FIG. 20B

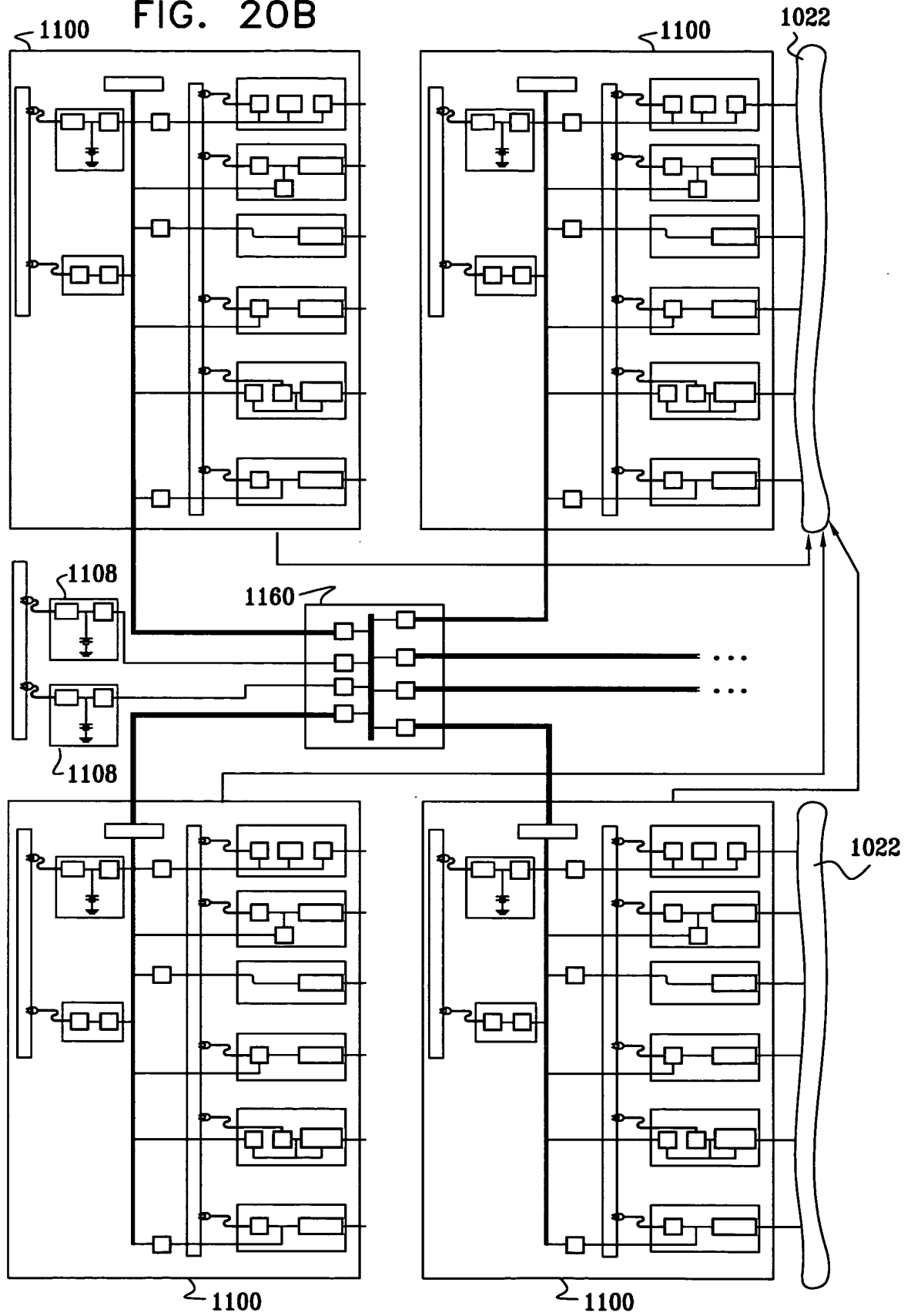




FIG. 21A

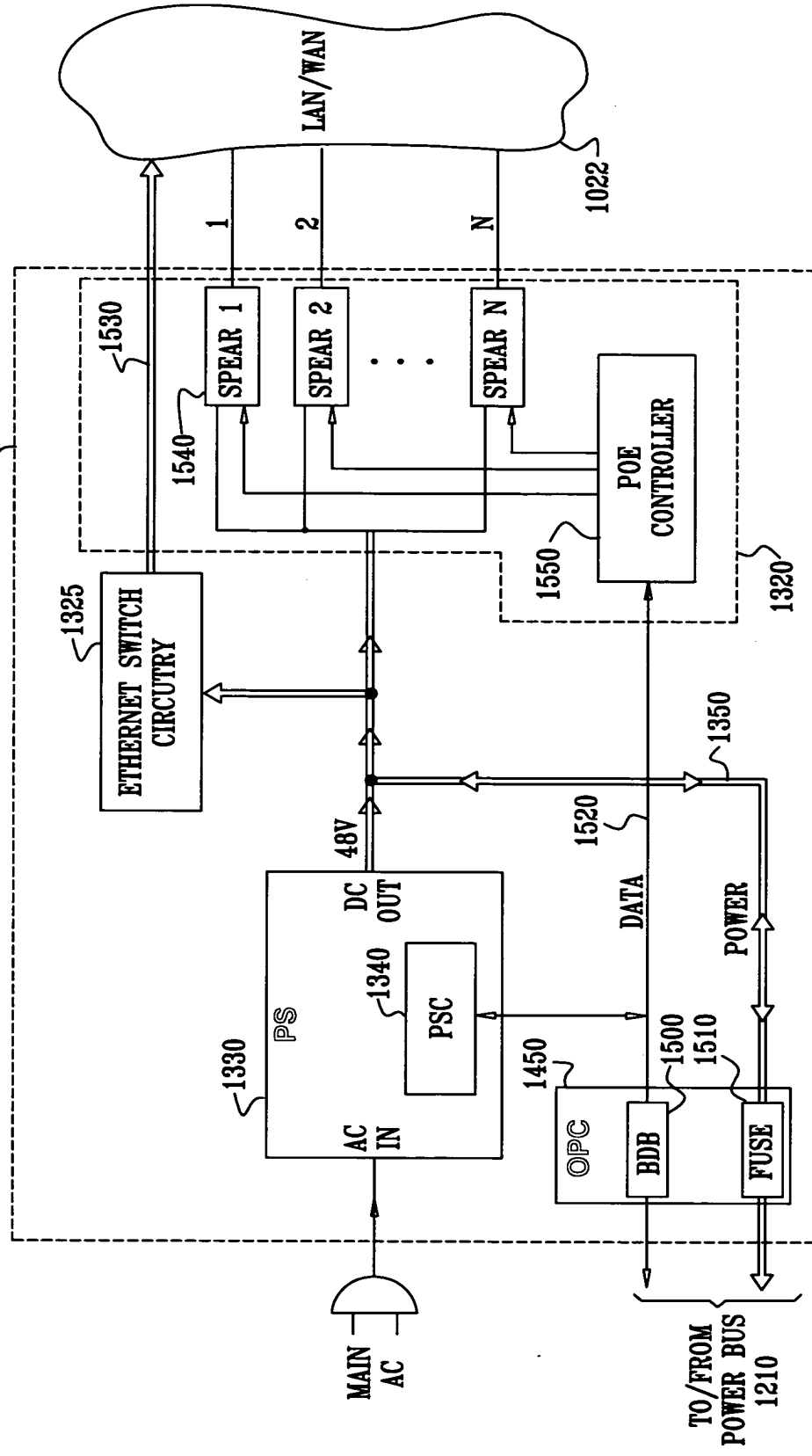


FIG. 21B

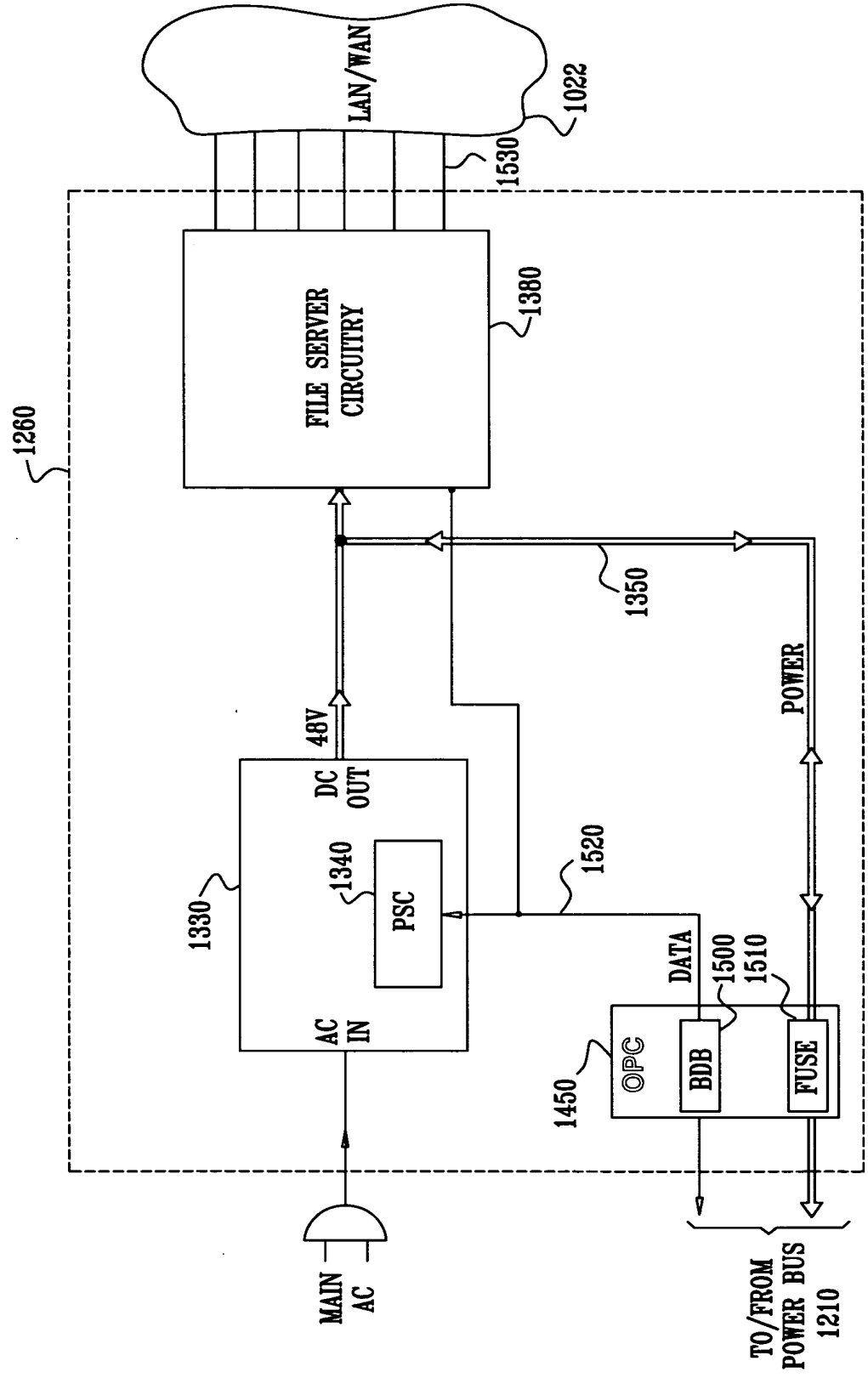


FIG. 21C

The diagram shows a system 1300 with two channels. Each channel includes a controllable switch 1590 and an adjustable current limiter 1550. The first channel's switch 1590 is connected to a power/data input/output 1560 and a current sense node 1580. The second channel's switch 1590 is connected to a power/data input/output 1600 and a current sense node 1580. Both current sense nodes 1580 are connected to an SIU controller 1620. The SIU controller 1620 also receives feedback from the current sense nodes 1570 and 1570. The system is labeled with various components: POWER IN/OUT 1, DATA IN/OUT 1, POWER IN/OUT 2, DATA IN/OUT 2, CONTROLLABLE SWITCH, ADJUSTABLE CURRENT LIMITER, CURRENT SENSE, and SIU CONTROLLER.

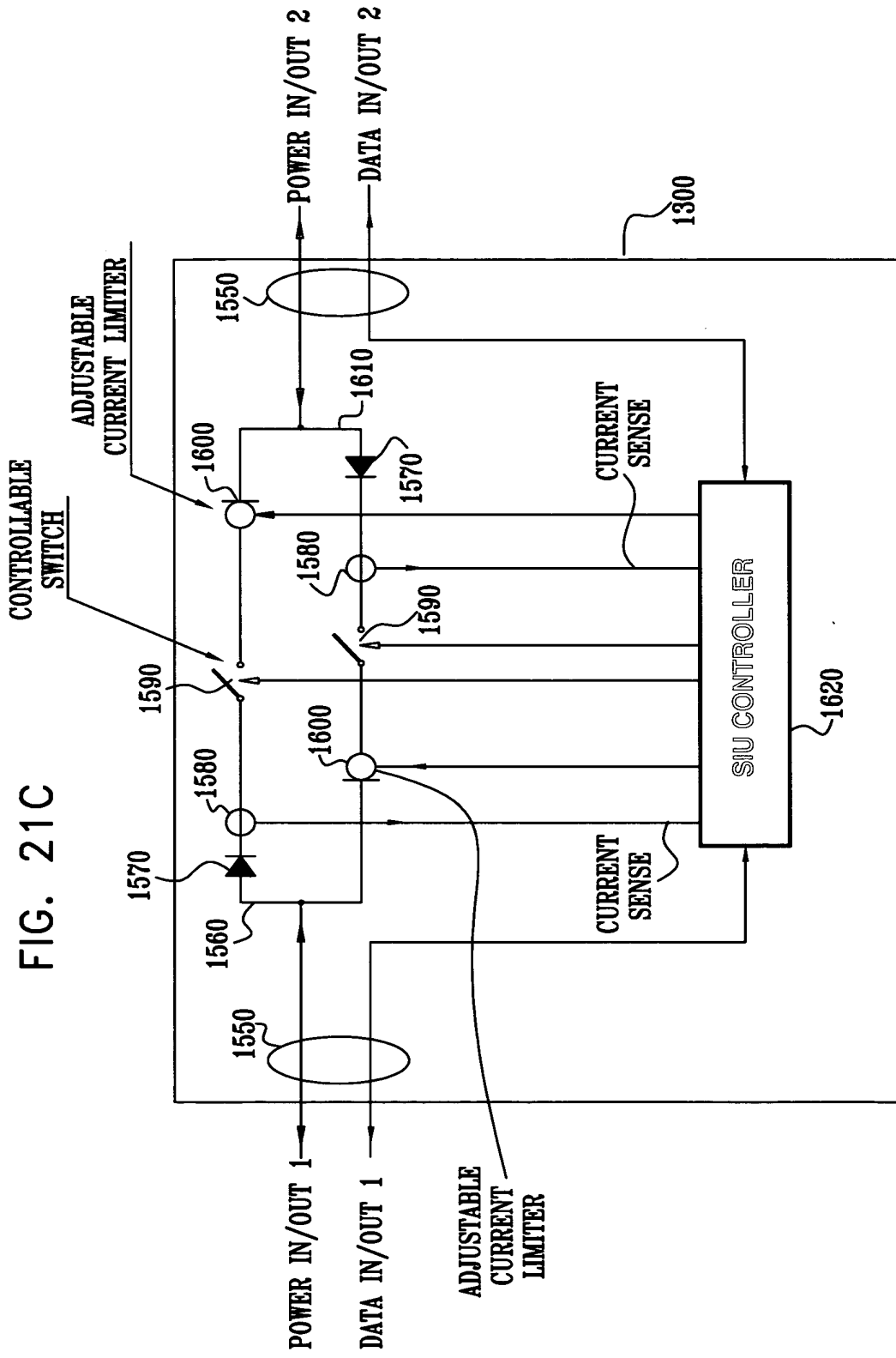


FIG. 21D

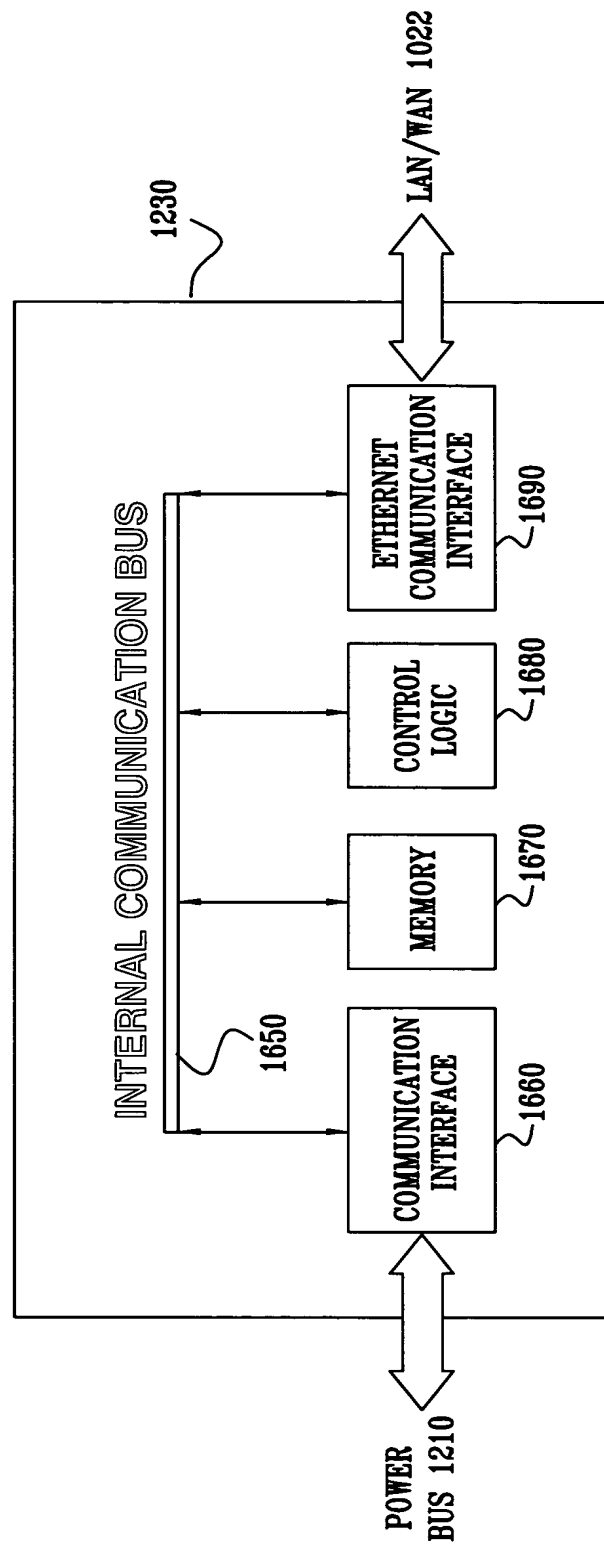


FIG. 21E

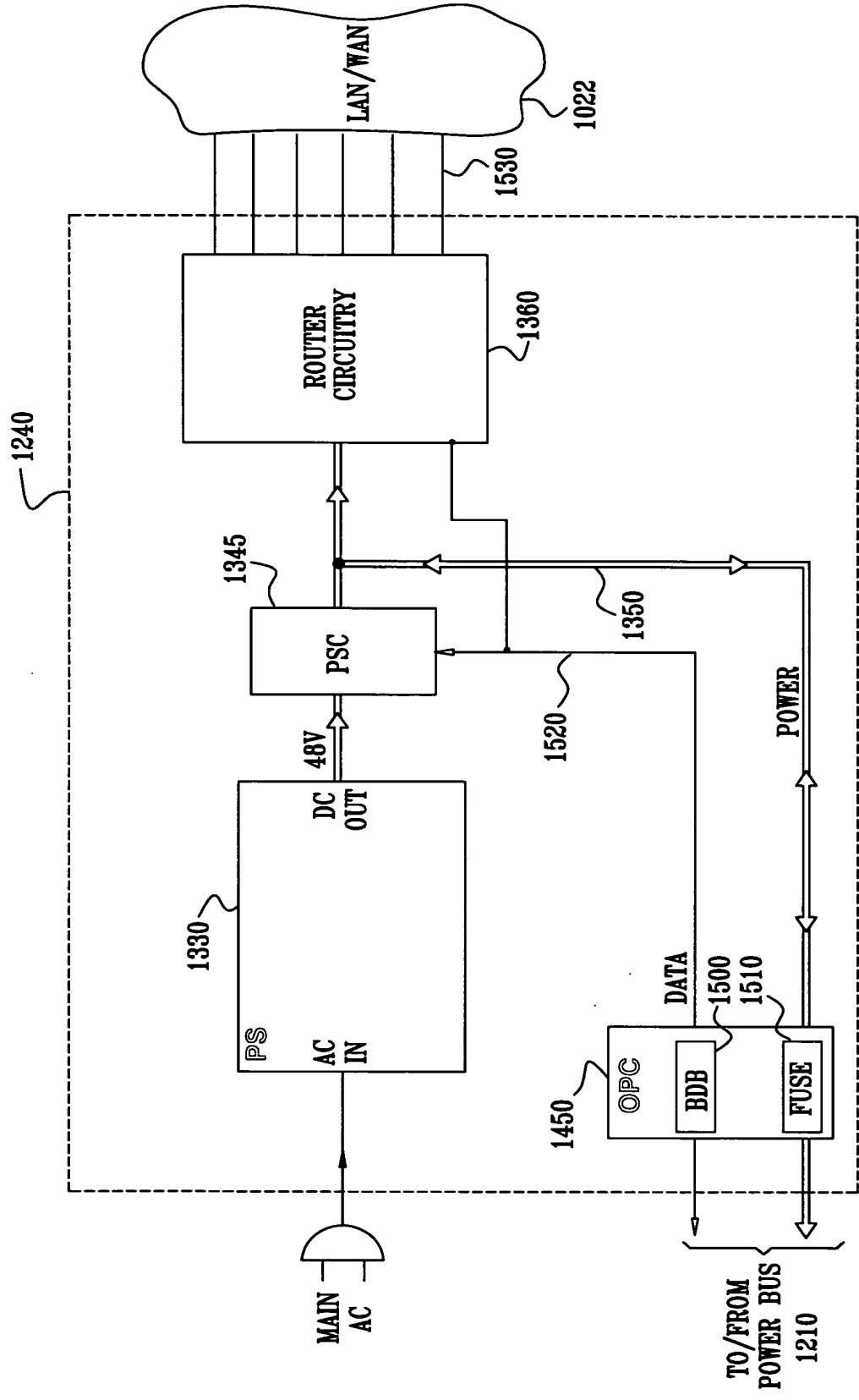


FIG. 21F

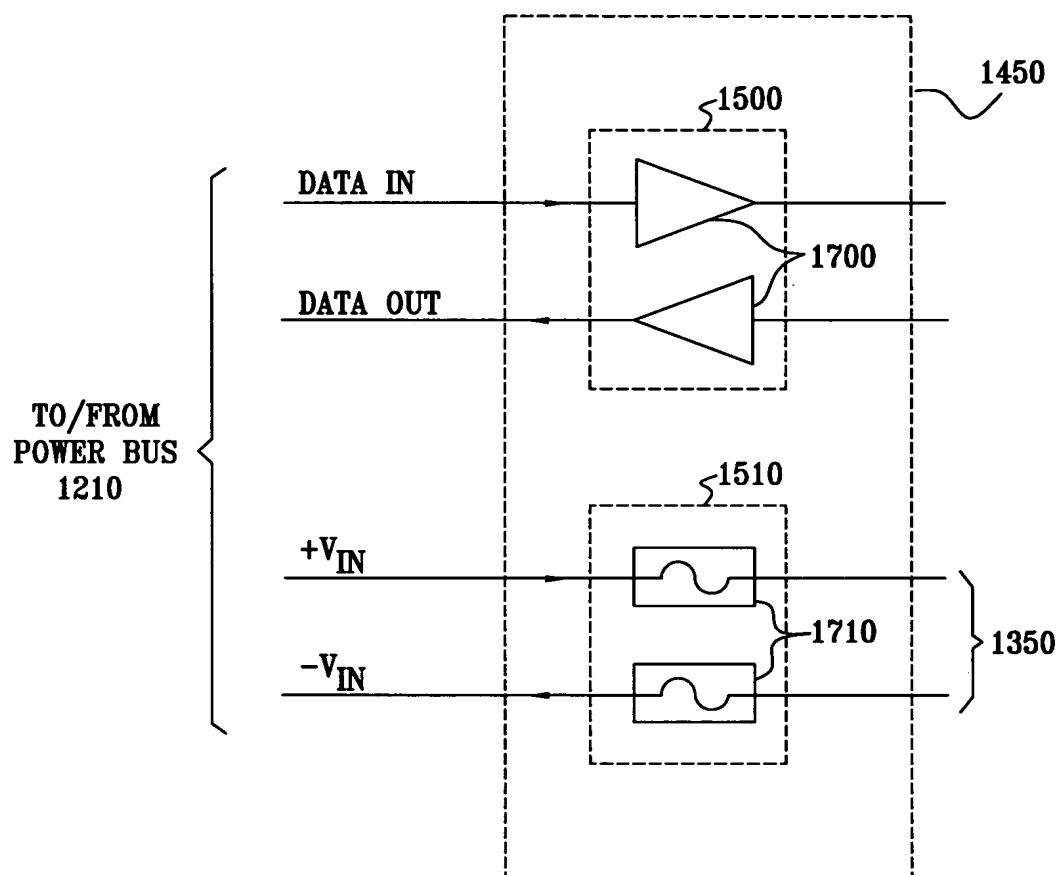


FIG. 22A

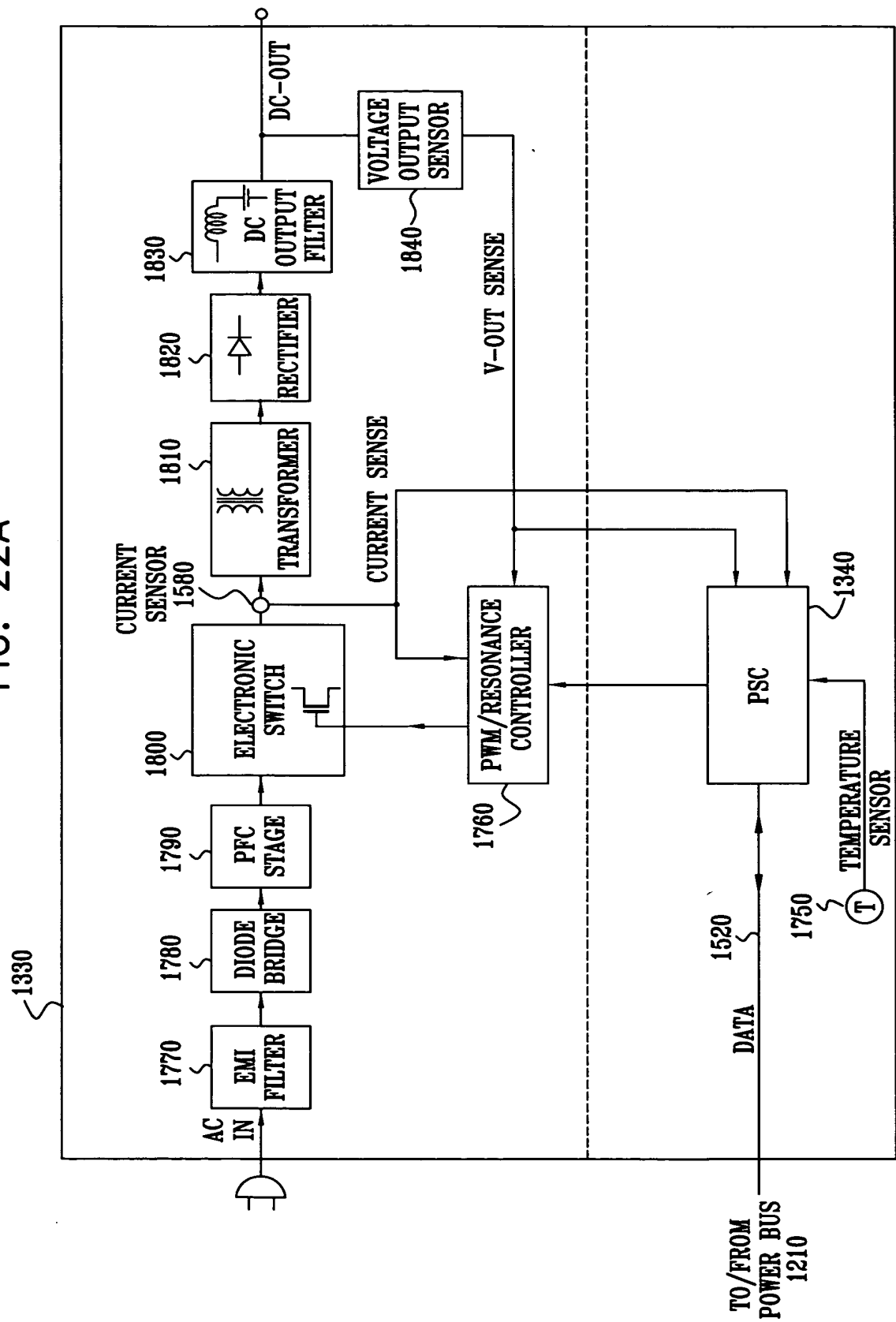


FIG. 22B

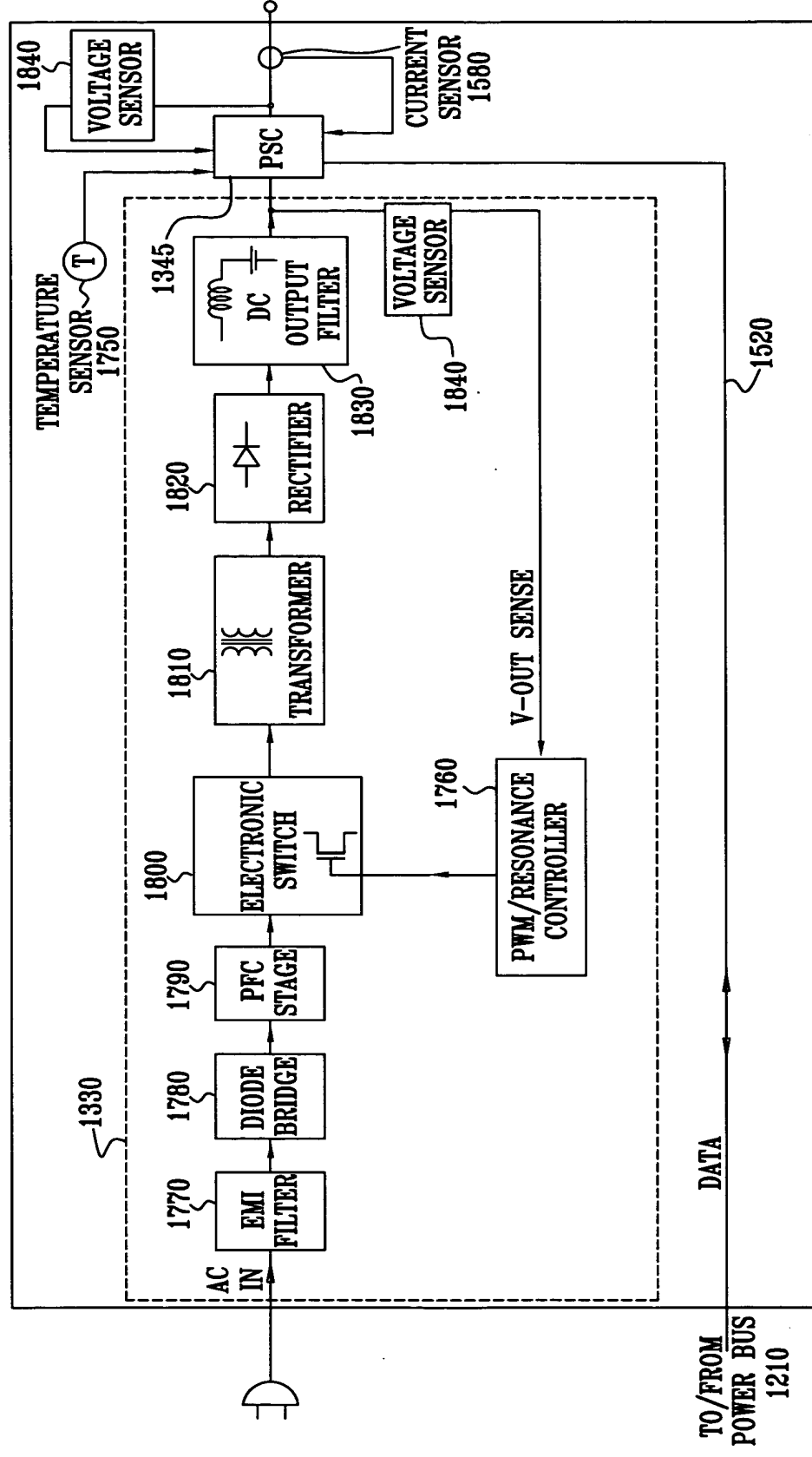




FIG. 23A

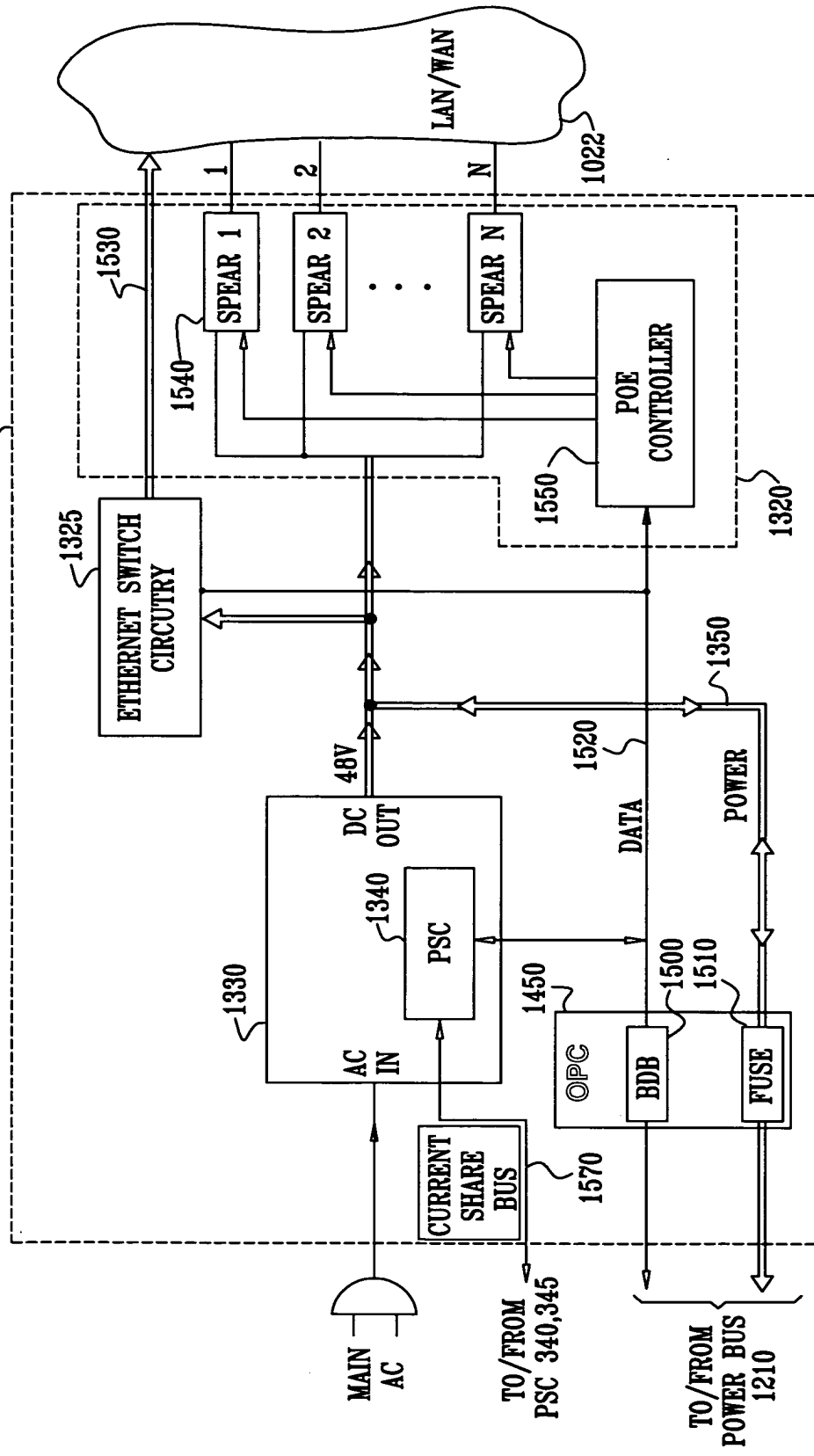


FIG. 23B

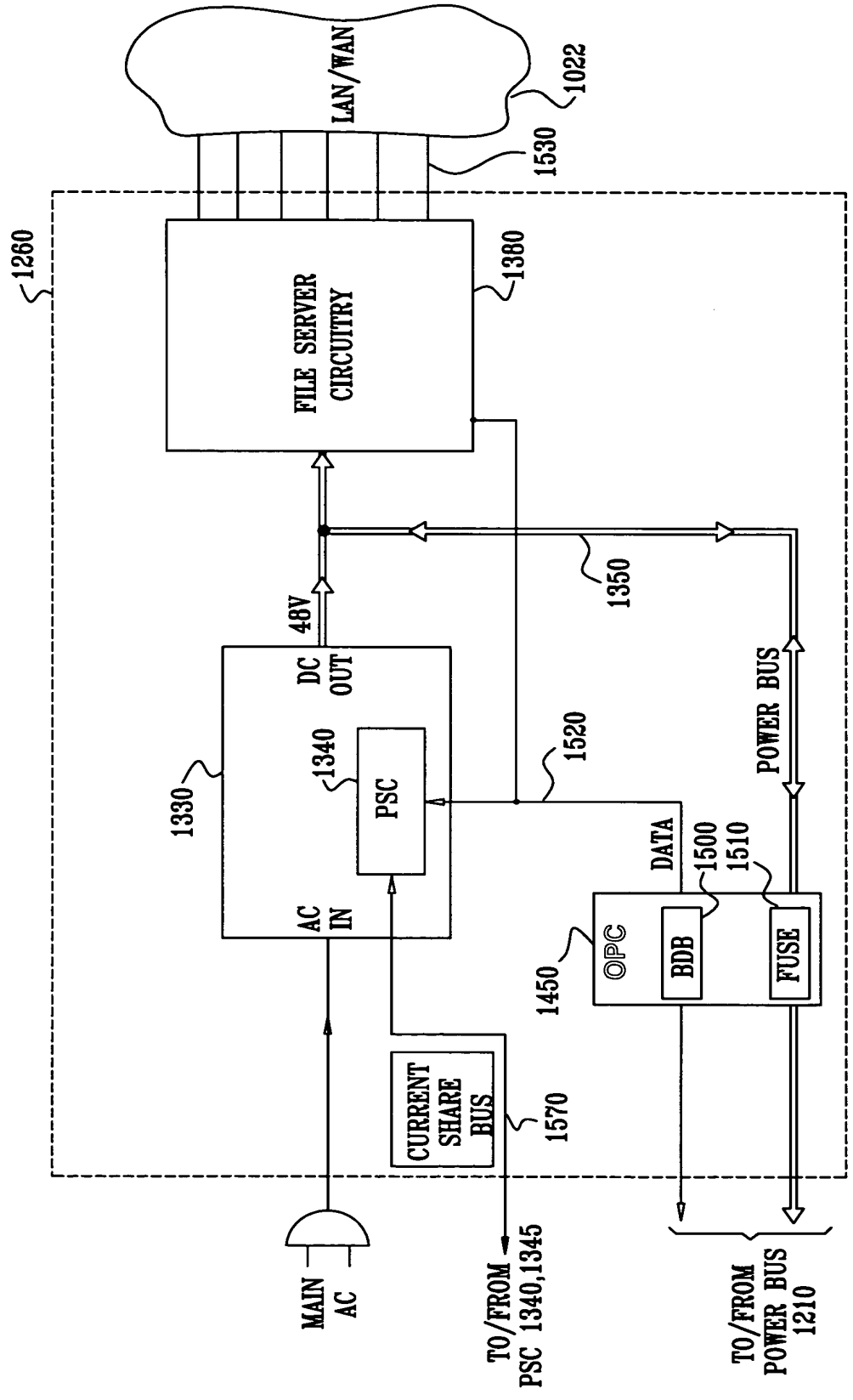


FIG. 23C

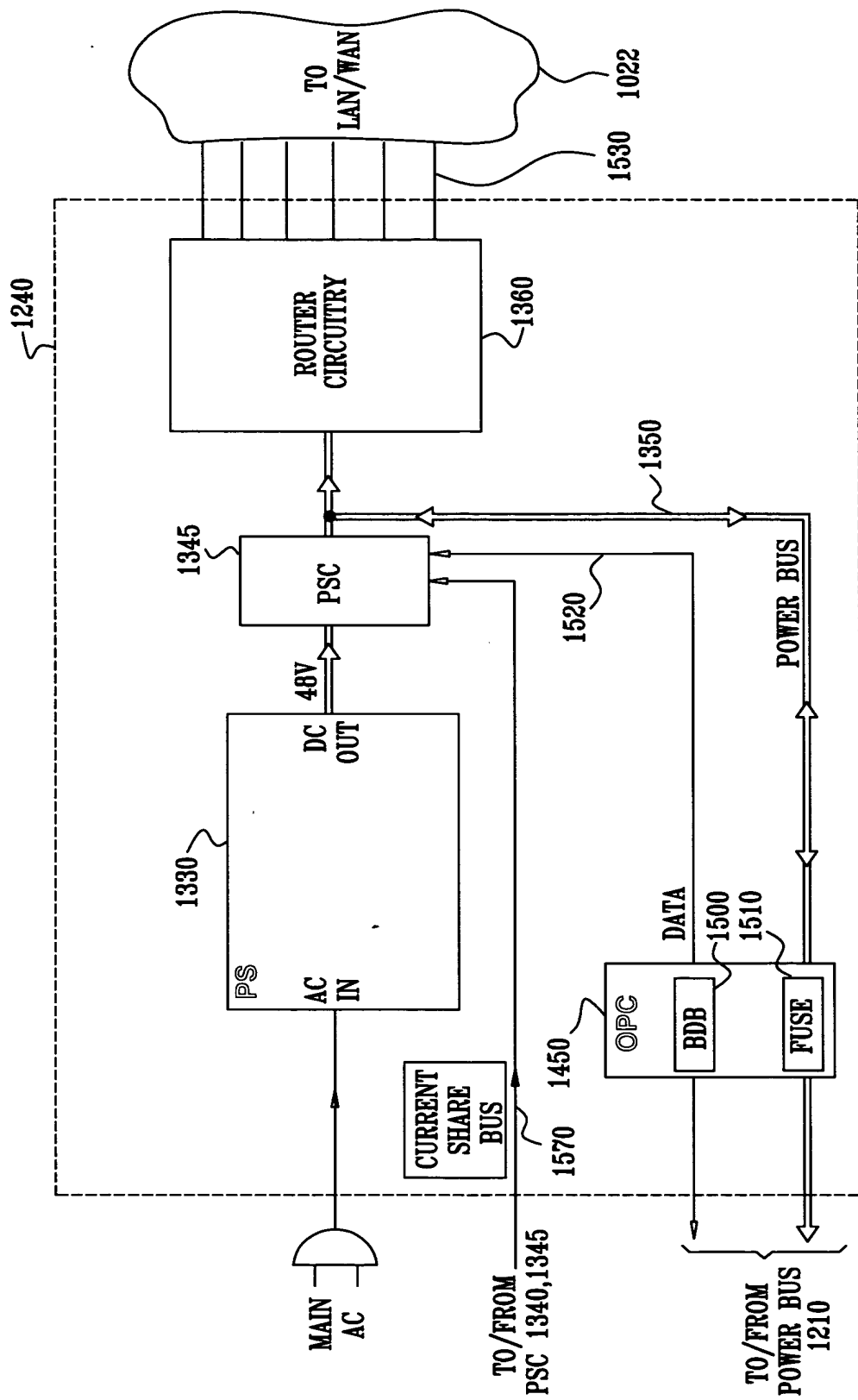


FIG. 24A

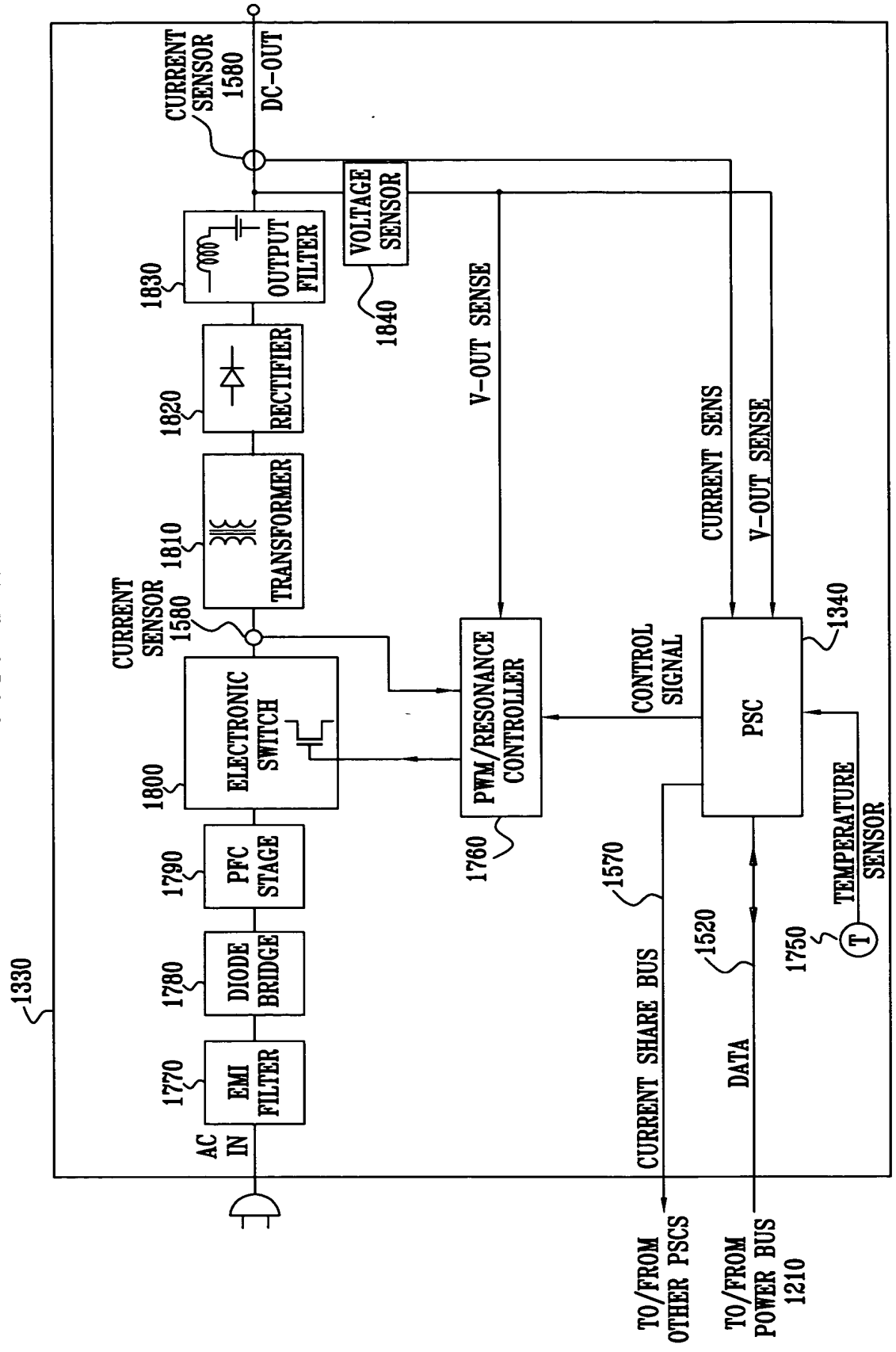
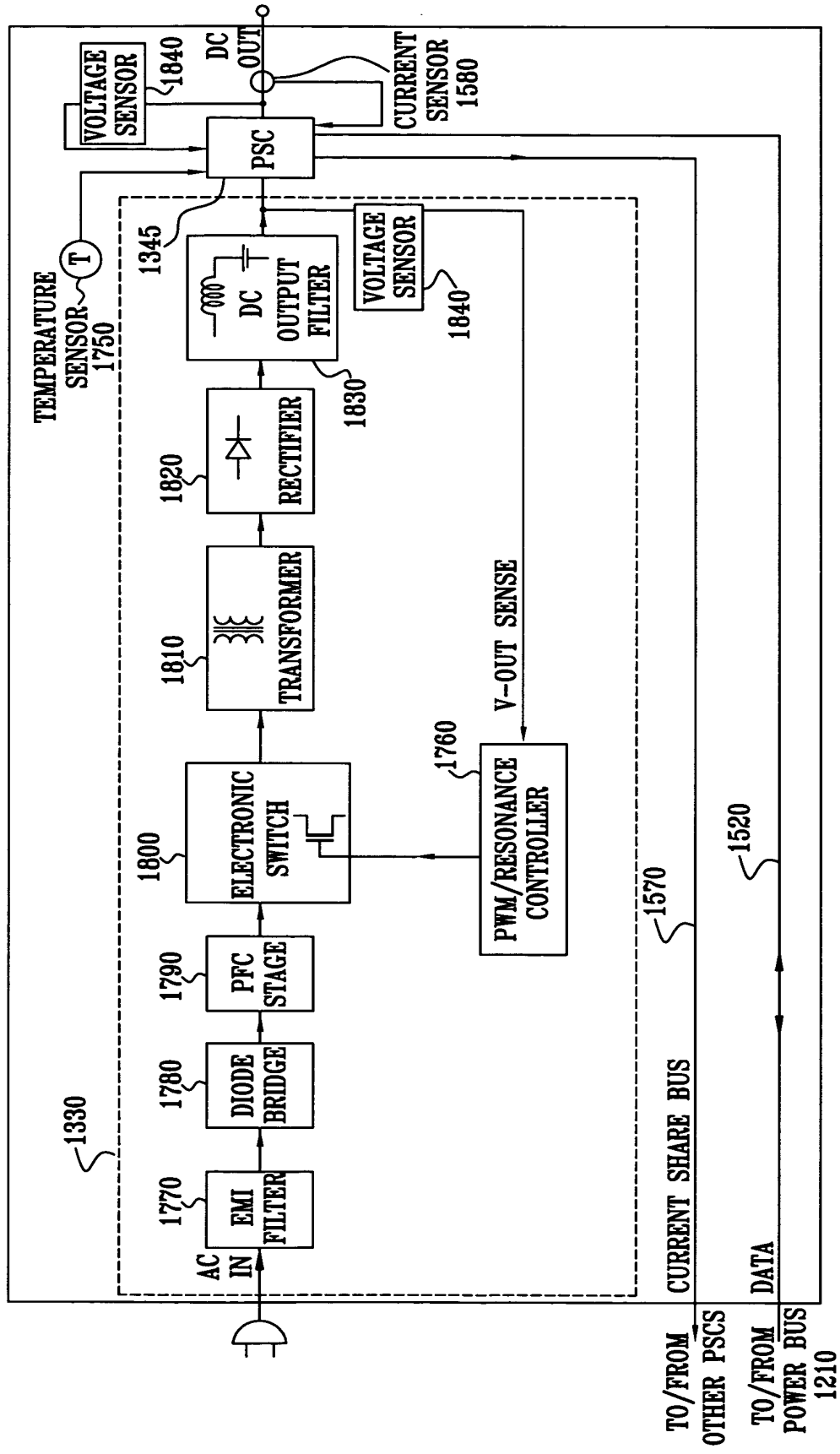


FIG. 24B



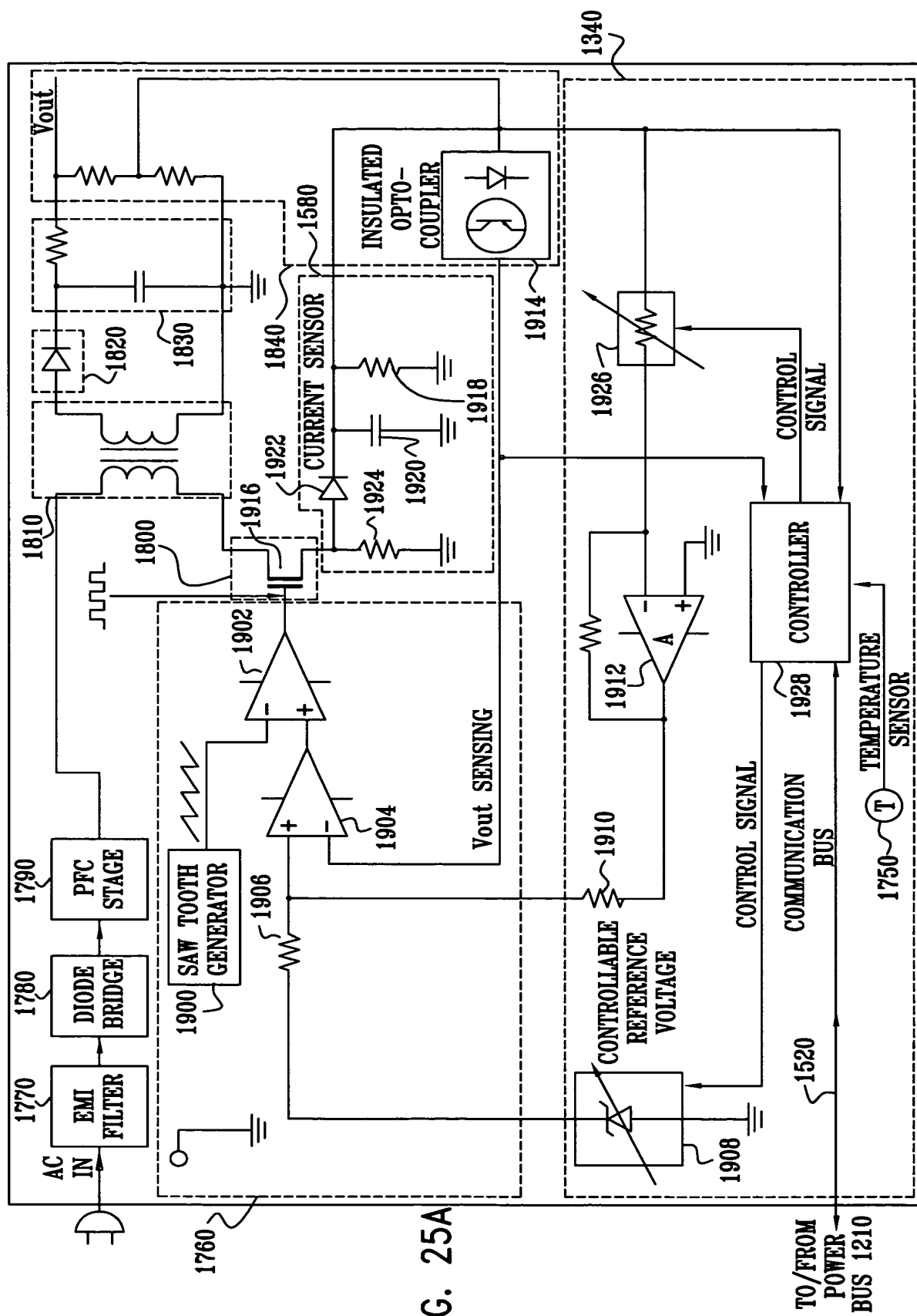
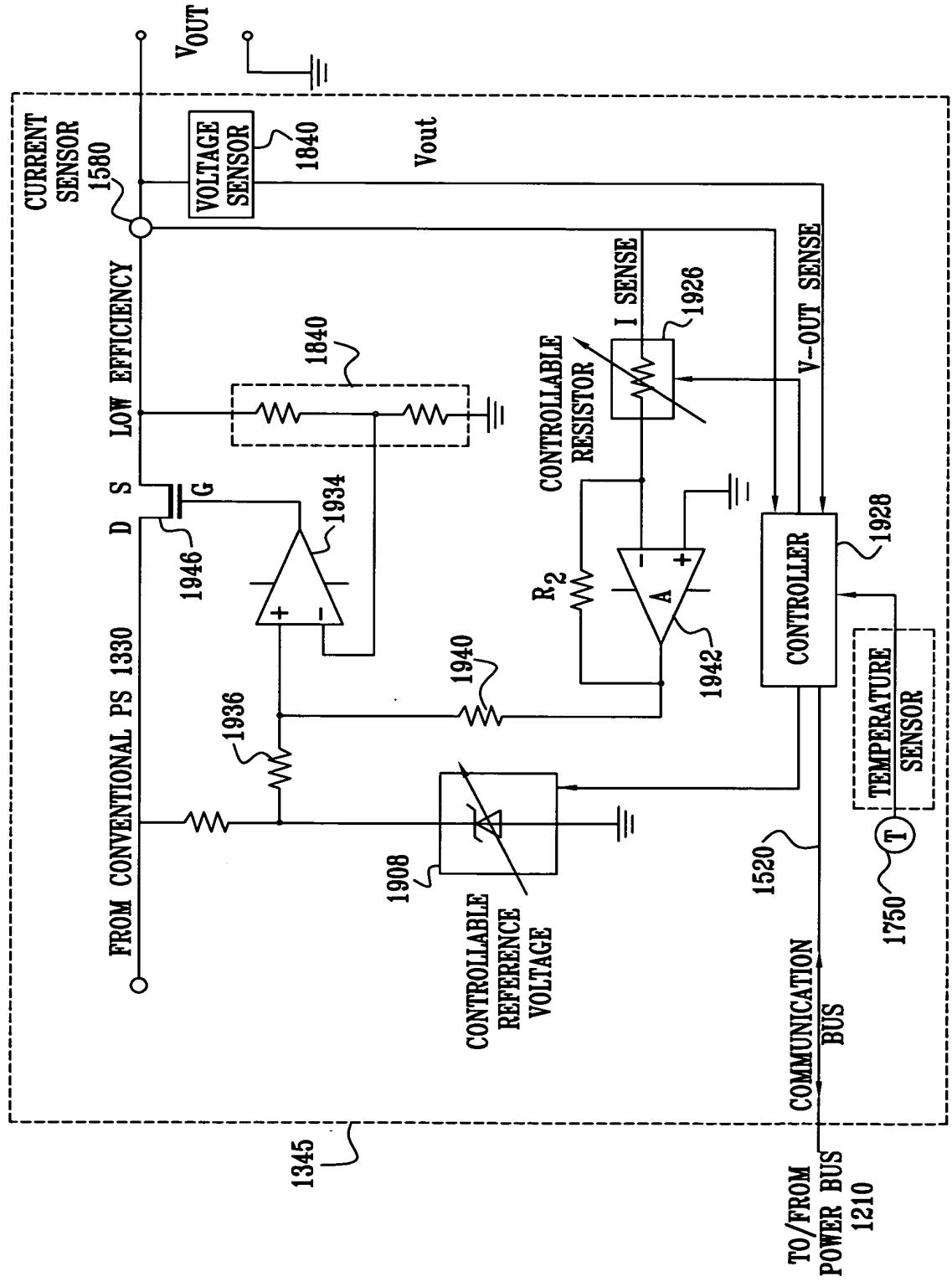


FIG. 25B



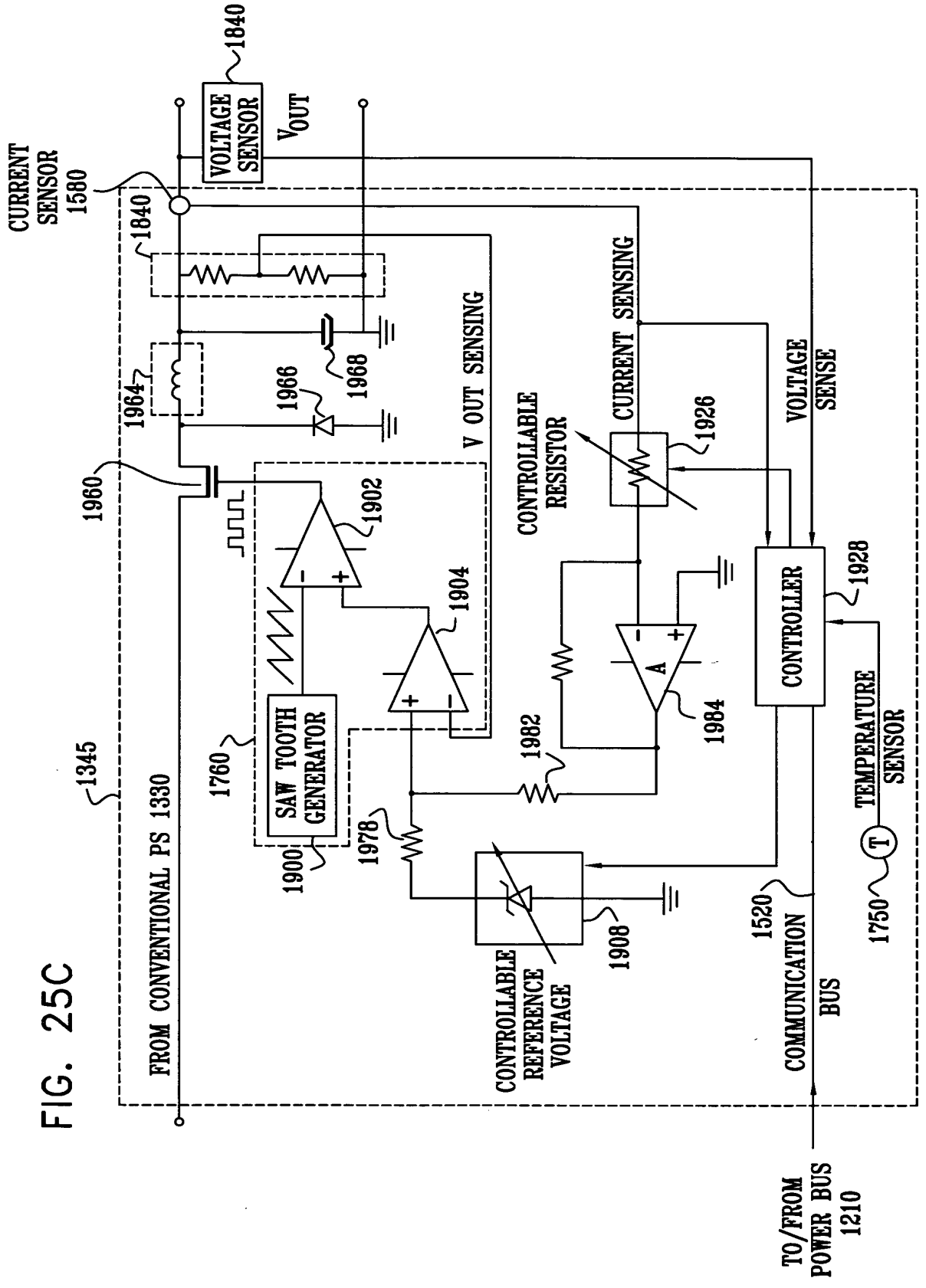


FIG. 25C



FIG. 26A

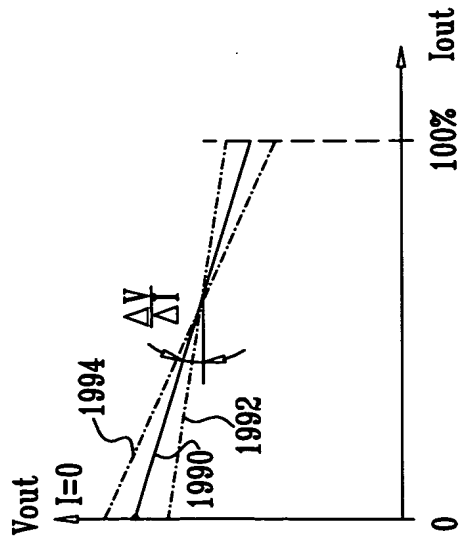


FIG. 26B

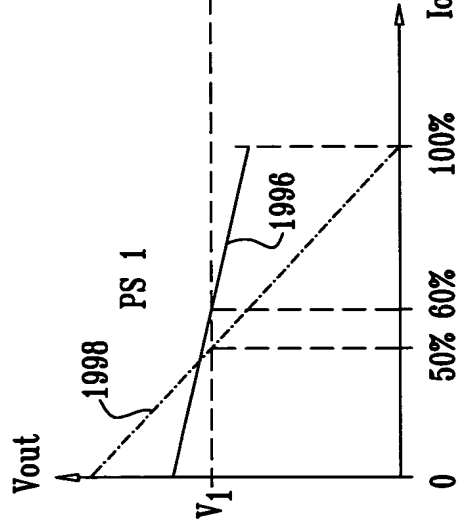
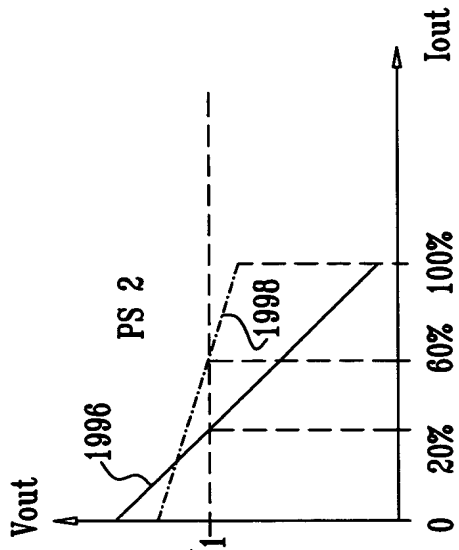


FIG. 26C



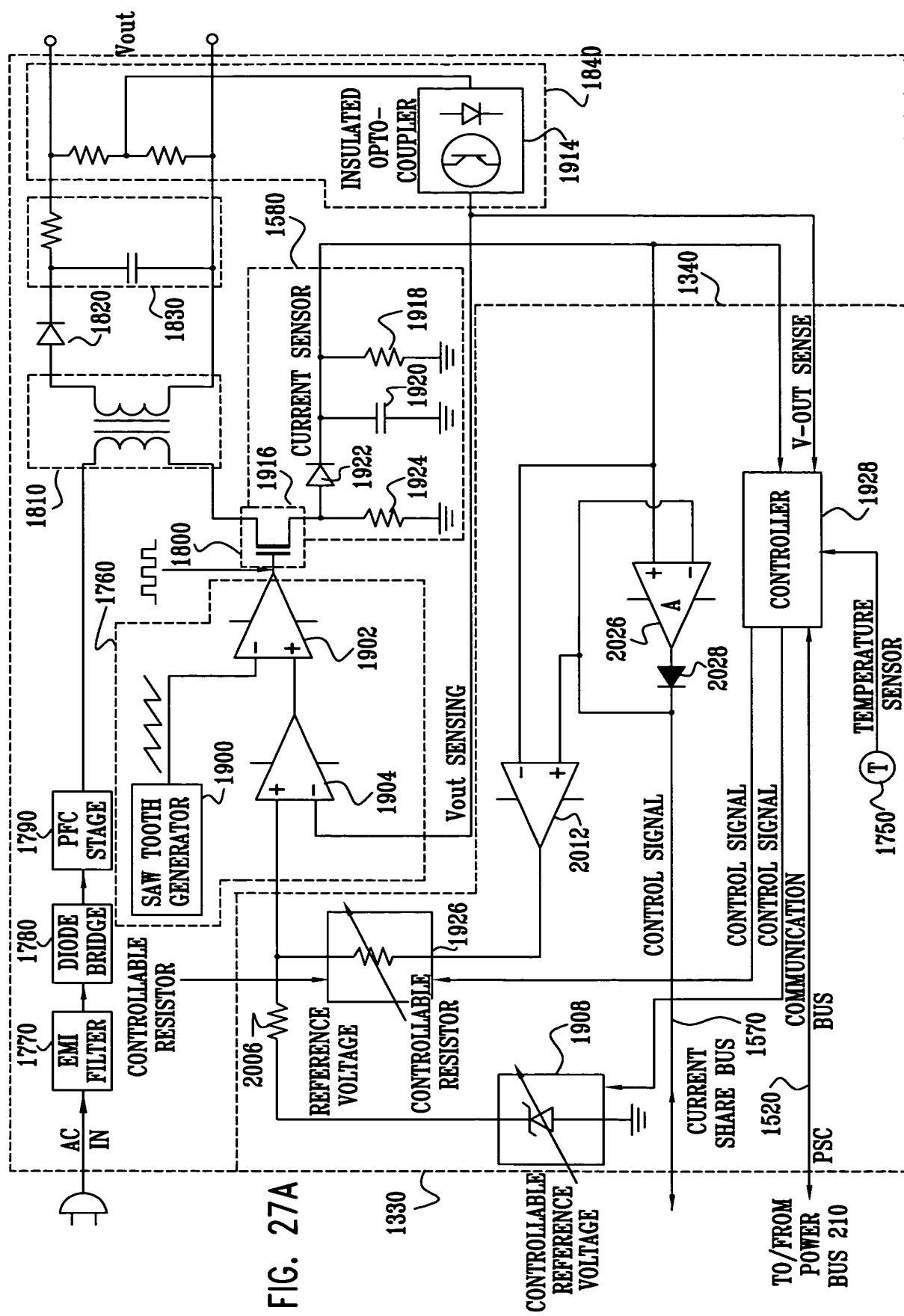


FIG. 27B

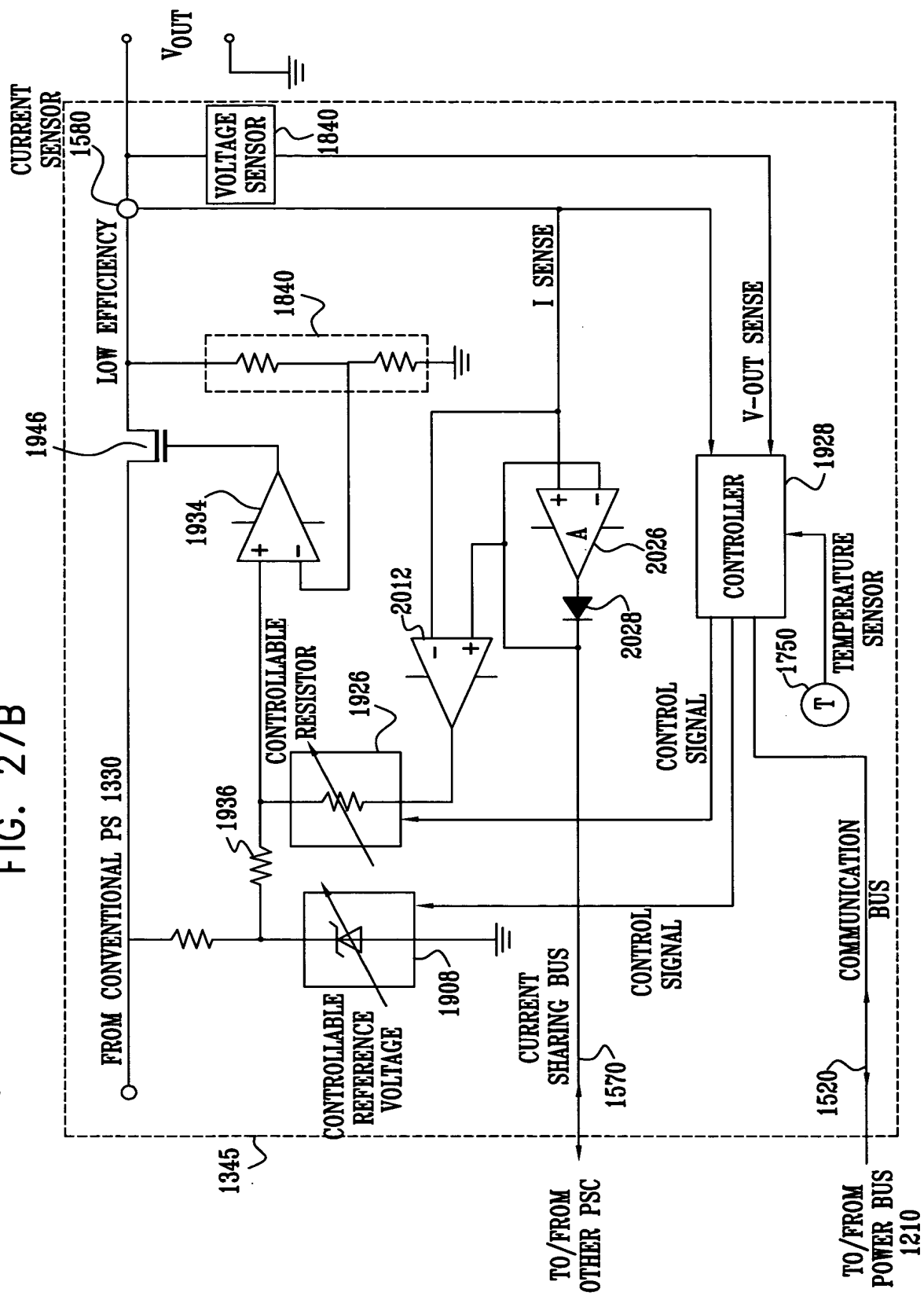


FIG. 27C

FIG. 27C is a block diagram of a power supply control system. The system includes a "FROM CONVENTIONAL PS OUTPUT 1330" input, a "TO/FROM SHARING BUS 1210" output, and a "TO/FROM POWER BUS 1210" output. A "CURRENT SENSING" block (1580) is connected to the sharing bus and includes a "CURRENT SENSOR 1580" and a "VOLTAGE SENSOR 1840". A "V OUT SENSING" block (1680) is connected to the power bus and includes a "VOLTAGE SENSOR 1840". A "CONTROLLER 1928" is connected to the current and voltage sensors and a "TEMPERATURE SENSOR 1750". The controller outputs a "CONTROL SIGNAL 1926" to a "CURRENT SENSING" block (1570) and a "V OUT SENSING" block (1680). The current sensing block (1570) includes a "SAW TOOTH GENERATOR 1900" and a "CONTROLLABLE REFERENCE VOLTAGE 1904". The voltage sensing block (1680) includes a "SAW TOOTH GENERATOR 1900" and a "CONTROLLABLE REFERENCE VOLTAGE 1904". The system also includes a "CURRENT SENSING" block (1570) and a "V OUT SENSING" block (1680). The current sensing block (1570) includes a "SAW TOOTH GENERATOR 1900" and a "CONTROLLABLE REFERENCE VOLTAGE 1904". The voltage sensing block (1680) includes a "SAW TOOTH GENERATOR 1900" and a "CONTROLLABLE REFERENCE VOLTAGE 1904".

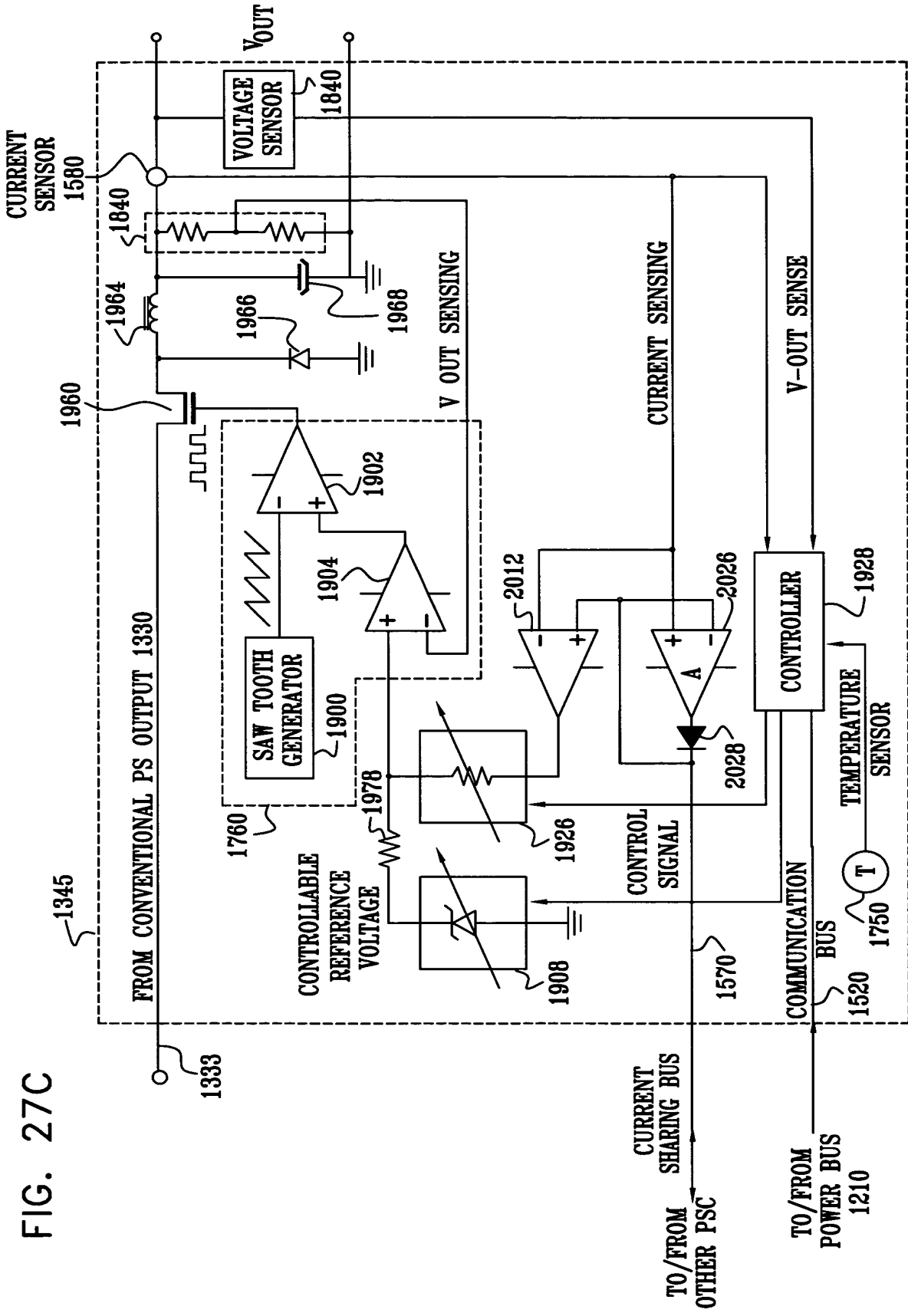


FIG. 27D

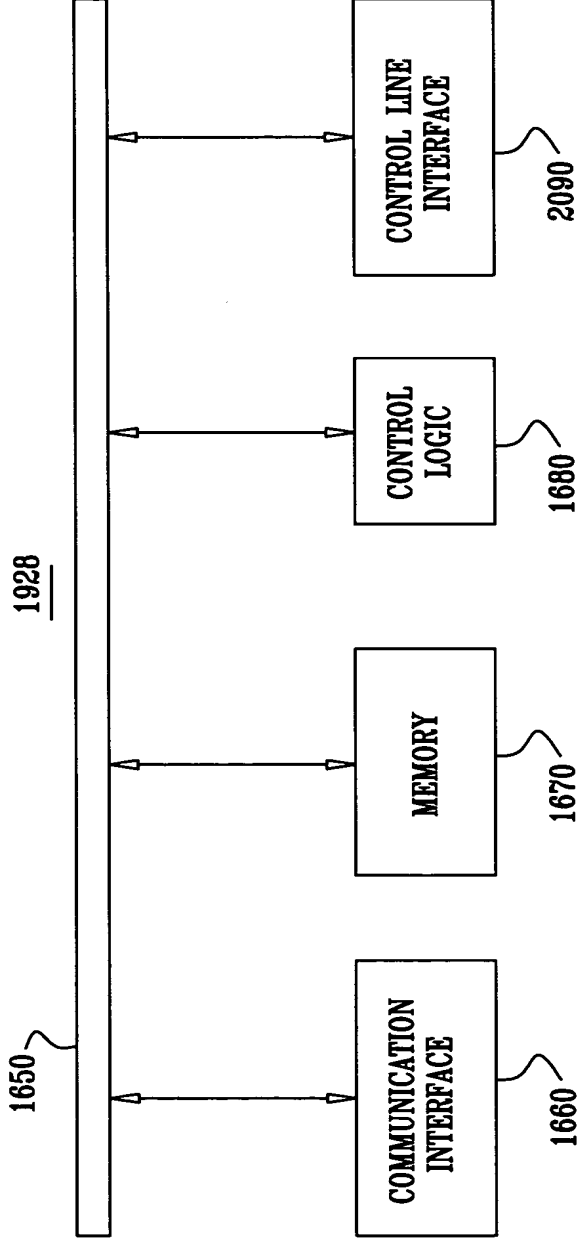


FIG. 28A

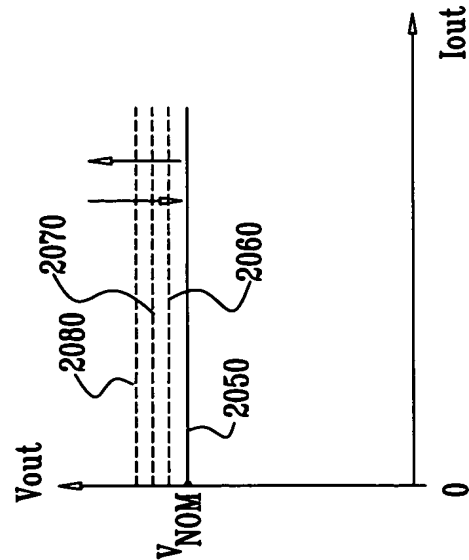


FIG. 28B

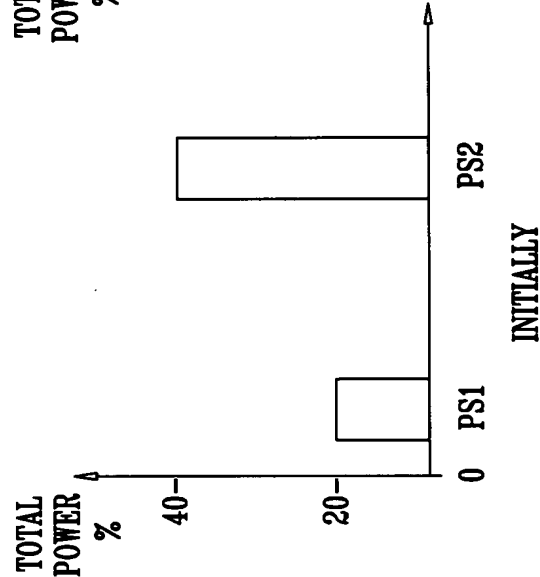


FIG. 28C

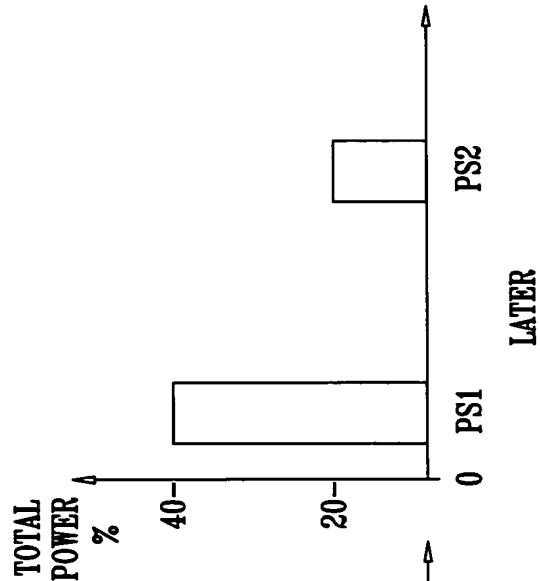


FIG. 29

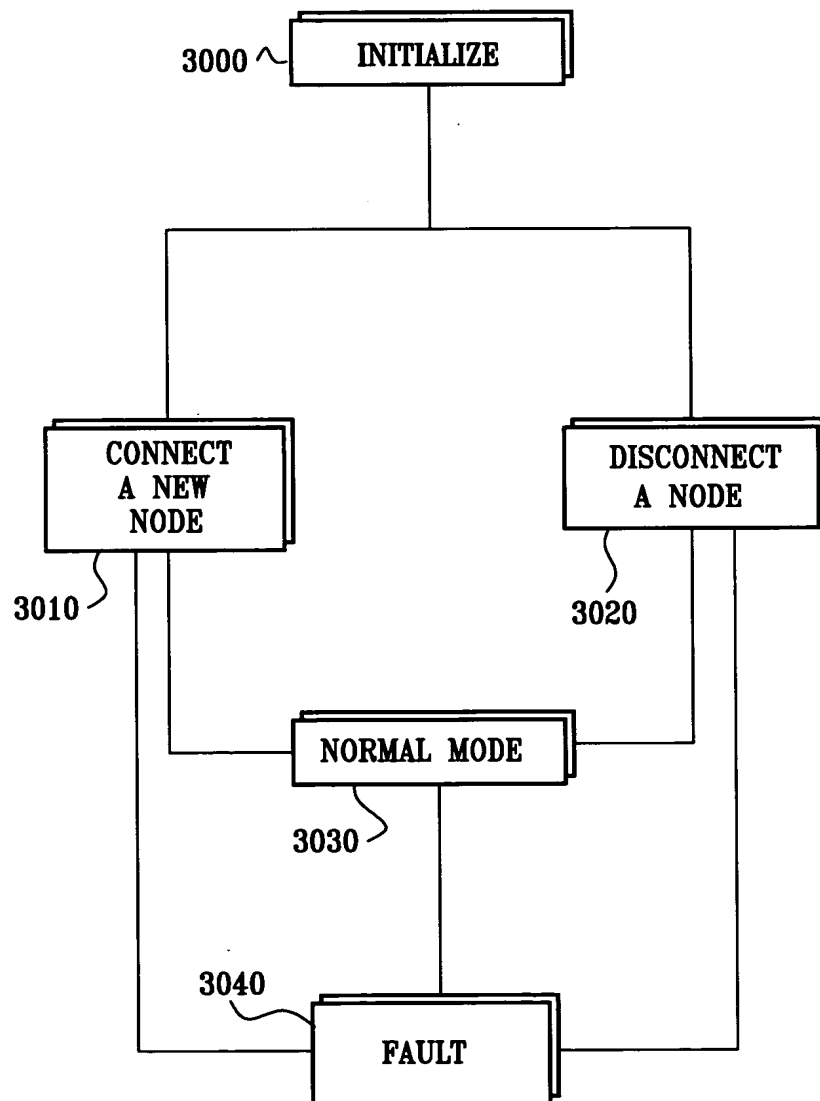


FIG. 30

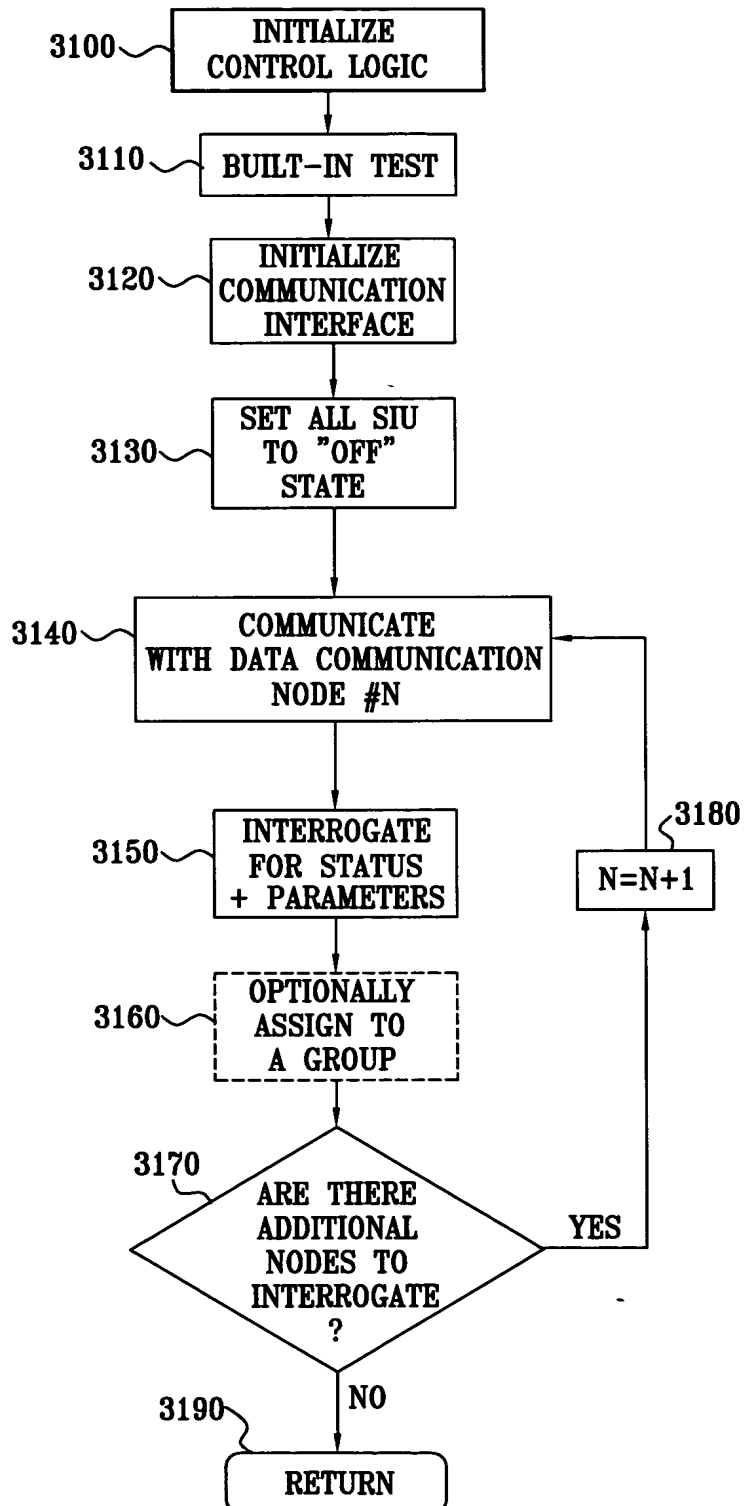




FIG. 31

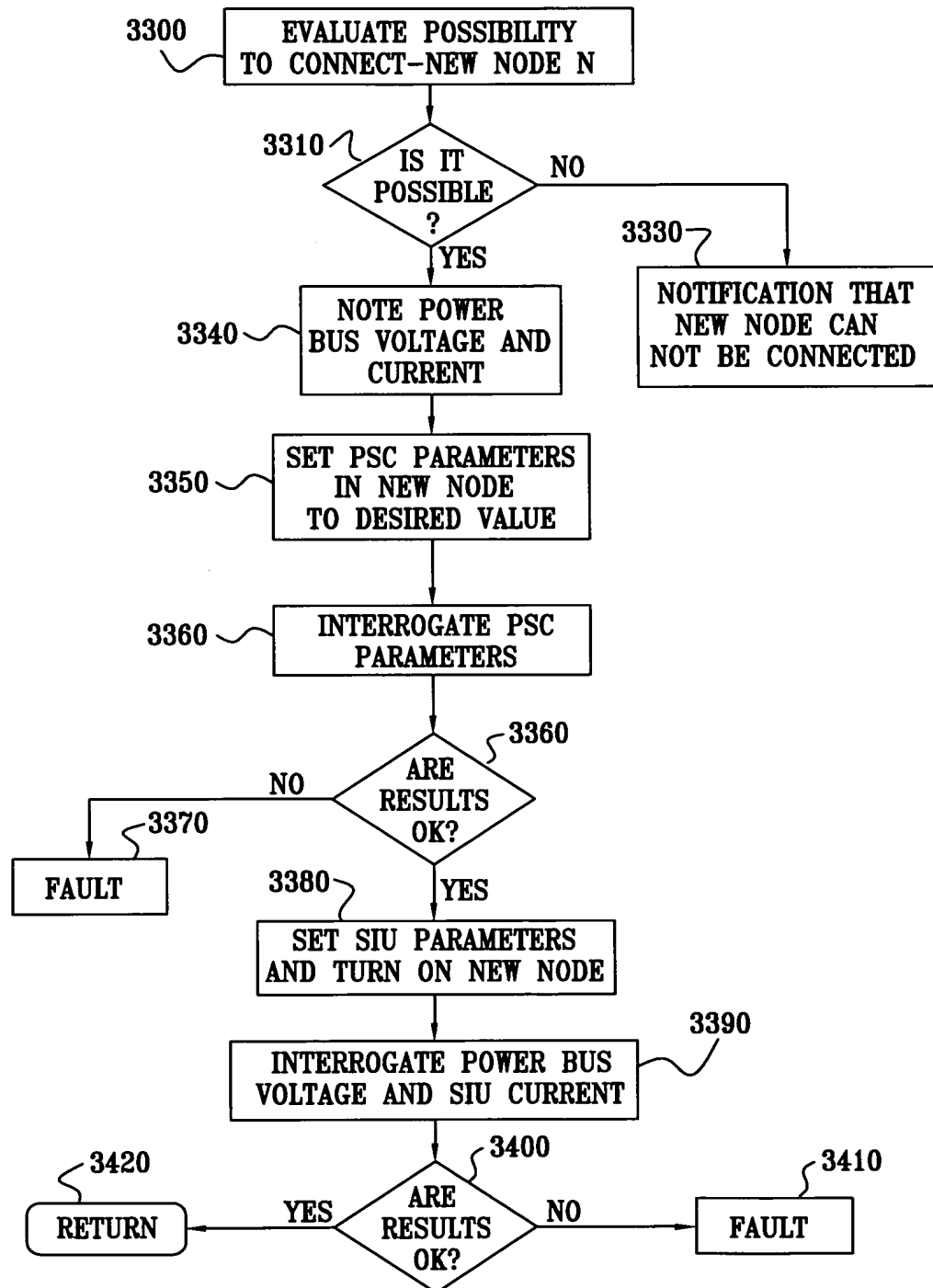


FIG. 32

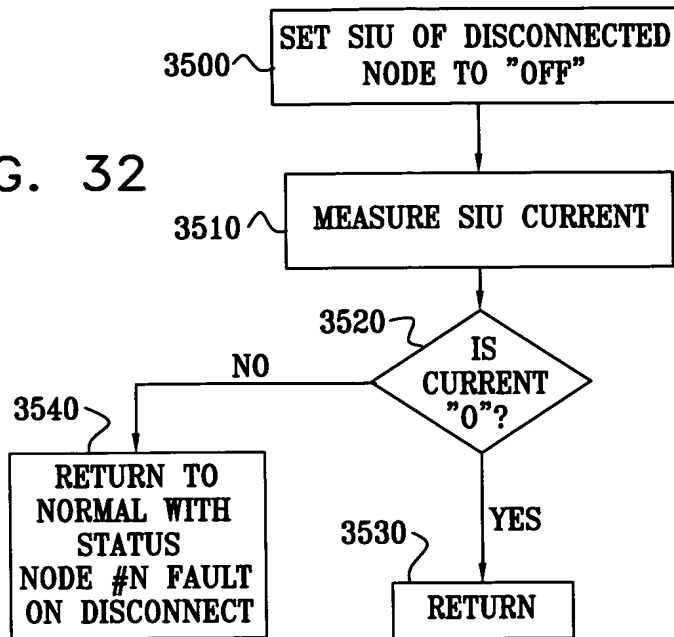


FIG. 33

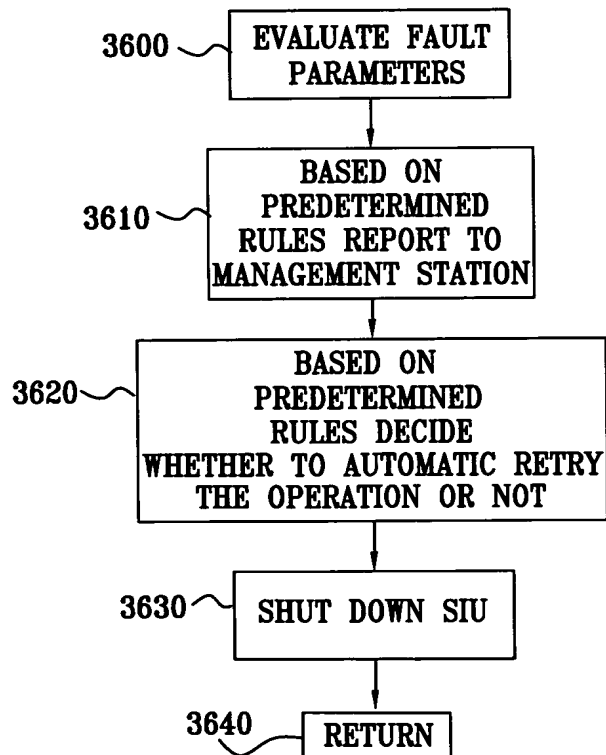


FIG. 34

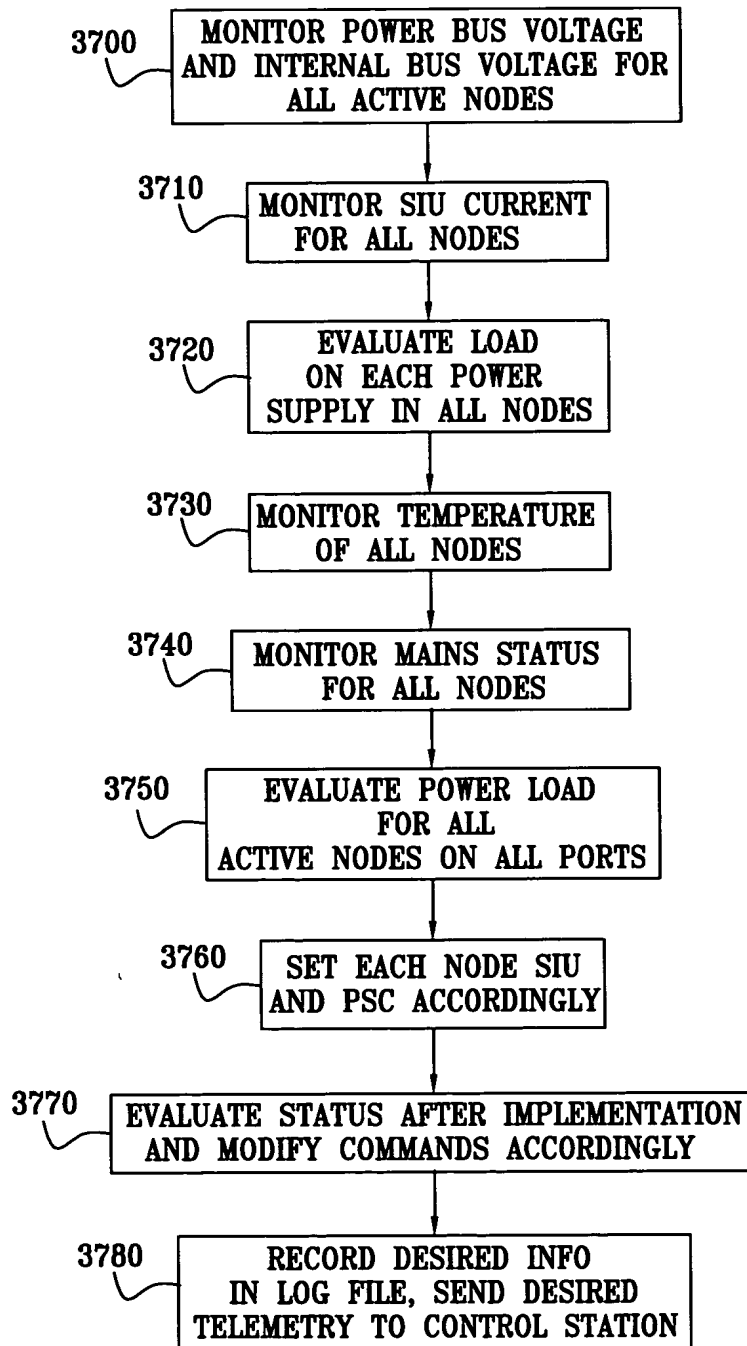


FIG. 35

